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789	HDACG50	871387	799	180 - 551	2204		87-103
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790	HWAGU6 2	871413	800	19 - 732	2205	Pro-94 to Lys-100, Glu-142 to Gln-147.	AR096: 6, AR039: 6, AR052: 6, AR089: 5, AR033: 5, AR053: 4, AR060: 4, AR055: 3, AR061: 3, AR104: 3 S0356: 10, S0422: 3, L0766: 3, L0803: 3, S0330: 3, H0486: 2, L0743: 2, L0731: 2, H0170: 1, L0785: 1, S0116: 1, S0442: 1, S0354: 1, S0358: 1, S0410: 1, S0278: 1, H0642: 1, H0581: 1, H0596: 1, H0355: 1, S0003: 1, L0455: 1, H0090: 1, H0591: 1, S0142: 1, S0344: 1, S0426: 1, L0598: 1, L0794: 1, L0804:	H0633: 1, S0144: 1, S0344: 1, S0002: 1, L0369: 1, L0772: 1, L0646: 1, L0764: 1, L0662: 1, L0775: 1, L0653: 1, L0384: 1, L0383: 1, L0664: 1, H0144: 1, H0520: 1, S0126: 1, H0435: 1, S0152: 1, H0521: 1, H0696: 1, H0555: 1, S0028: 1, S0260: 1, S0436: 1, L0589: 1, S0242: 1, S0194: 1, H0423: 1, H0422: 1 and S0424: 1.	211-238, 68-93, 146-164, 178-197, 1-22, 29-45

791	HOEBN65	871416	801	122 - 577	2206			
					Phe-17 to Ala-26, Arg-44 to Ile-51, Lys-64 to Asp-72, Thr-100 to Leu-110.	AR033: 21, AR055: 20, AR089: 14, AR061: 12, AR060: 11, AR053: 10, AR052: 9, AR039: 8, AR096: 8, AR104: 5 L0731: 11, L0752: 9, L0750: 7, L0748: 6, L0757: 6, L0758: 6, L0743: 5, H0012: 4, L0751: 4, L0755: 4, S0116: 3, L0783: 3, S0126: 3, S0044: 3, L0741: 3, H0445: 3, T0049: 2, H0255: 2, H0305: 2, S0358: 2, S0444: 2, S6026: 2, H0643: 2, H0257: 2, T0048: 2, H0150: 2, L0471: 2, H0620: 2, H0290: 2, H0213: 2, H0617: 2, H0494: 2, L0770: 2, L0769: 2, L0803: 2, L0776: 2, L0518: 2, H0658: 2, S0027: 2, L0747: 2, L0777: 2, L0587: 2, L0588: 2, L0604: 2, H0170:	1, L0659: 1, L0809: 1, L0789: 1, L0664: 1, H0547: 1, H0660: 1, S0378: 1, L0751: 1, L0754: 1, L0779: 1, L0780: 1, L0758: 1, L0608: 1, S0026: 1 and H0543: 1.	120-148

| 792 | HOEEY60 | 871485 | 802 | 155 - 499 | 2207 | Lys-38 to Ser-45. | 1, H0149: 1, H0265: 1, H0140: 1, H0295: 1, H0294: 1, S0430: 1, H0657: 1, H0341: 1, H0484: 1, H0402: 1, H0125: 1, S0420: 1, S0360: 1, S0410: 1, L0467: 1, H0441: 1, H0370: 1, H0330: 1, H0600: 1, H0592: 1, H0586: 1, H0333: 1, H0492: 1, H0486: 1, H0156: 1, H0618: 1, H0253: 1, S0346: 1, H0581: 1, H0196: 1, H0204: 1, H0545: 1, H0123: 1, H0320: 1, H0014: 1, H0399: 1, H0594: 1, H0687: 1, H0252: 1, H0615: 1, T0006: 1, H0604: 1, H0182: 1, H0090: 1, H0616: 1, H0087: 1, H0412: 1, S0150: 1, S0142: 1, L0763: 1, L0761: 1, L0772: 1, L0764: 1, L0794: 1, L0533: 1, L0775: 1, L0653: 1, L0655: 1, L0659: 1, L0530: 1, S0330: 1, H0696: 1, S0406: 1, L0740: 1, L0754: 1, L0753: 1, H0667: 1, S0192: 1 and H0543: 1. AR096: 37, AR089: 36, AR052: 30, AR053: 27, | 15-37, 83-99, 53-69 |

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No.	Clone	Acc. No.	SEQ ID	NT range	SEQ ID	Description	SNPs		Regions
793	HHECK12	871540	803	2 - 967	2208	Lys-14 to Gly-19, Asp-62 to Ile-67, Asn-87 to Glu-107.	AR104: 9, AR033: 9, AR039: 7, AR060: 7, AR089: 4, AR052: 2, AR055: 2, AR053: 2, AR096: 2, AR061: 1 L0438: 1, H0659: 1, H0658: 1, H0670: 1, H0648: 1, H0696: 1, L0754: 1, L0755: 1, L0759: 1, S0434: 1, S0276: 1 and H0008: 1.		30-59, 17-39, 233-249
794	HTLEM32	871541	804	175 - 675	2209	Ile-35 to Leu-45, Lys-67 to Gly-72, Asp-115 to Ile-120, Asn-140 to Ser-154.	AR039: 20, AR033: 17, AR055: 14, AR104: 14, AR053: 13, AR060: 13, AR089: 12, AR061: 7, AR052: 7, AR096: 7 S0010: 1, S0374: 1, L0366: 1, S0276: 1 and H0542: 1.		83-112, 70-92
795	HPMJT61	871619	805	31 - 498	2210		AR055: 7, AR052: 5, AR060: 4, AR089: 4, AR033: 4, AR061: 4, AR053: 3, AR096: 3, AR104: 2, AR039: 1 L0748: 4, L0809: 3, L0439: 3, L0777: 2, L0589: 2, S0278: 1, H0024: 1, H0644: 1, L0791: 1, H0547: 1, L0749: 1 and H0352: 1.		104-127
796	HHEOI72	871663	806	237 -	2211	Lys-4 to Arg-9,	AR052: 3, AR089: 3,		9-32, 170-

| 797 | HAPRN77 | 871674 | 807 | 26 - 379 | 2212 | 1685. | Asp-51 to Asp-56, Lys-251 to Thr-257, Asn-333 to Trp-339, Ala-411 to Pro-422. | AR053: 2, AR055: 2, AR096: 2, AR060: 1, AR033: 1, AR061: 1, AR039: 0, AR104: 0 H0484: 3, L0439: 3, S0354: 2, H0521: 2, H0265: 1, H0341: 1, S0356: 1, H0427: 1, H0052: 1, H0373: 1, H0553: 1, H0264: 1, H0494: 1, S0422: 1, L0666: 1, L0438: 1, S0270: 1, H0555: 1, H0576: 1, S0028: 1, L0743: 1, L0749: 1, L0777: 1, H0445: 1, S0436: 1 and H0543: 1. | | 203, 66-89, 145-166, 94-113, 212-228, 267-283, 289-305, 345-361, 121-137, 426-442, 311-327, 449-465 |
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| 798 | HLJDL43 | 871689 | 808 | 577 - 972 | 2213 | His-2 to Gly-19, Gly-63 to Gly-70, Pro-89 to Ser-95, Lys-105 to Ser-118. | AR053: 27, AR052: 23, AR096: 23, AR033: 20, AR039: 19, AR104: 18, AR089: 14, AR060: 12, AR055: 11, AR061: 6 L0766: 8, H0521: 4, L0748: 4, L0439: 4, S0360: 3, H0581: 2, L0471: 2, H0135: 2, H0264: 2, L0805: 2, L0776: 2, L0754: 2, L0599: 2, H0423: 2, H0624: 1, H0265: 1, H0556: 1, S0040: 1, H0657: 1, H0662: 1, S0045: 1, S0222: 1, H0592: 1, H0485: 1, H0599: 1, H0575: 1, H0618: 1, S0010: 1, H0545: 1, H0009: 1, H0014: 1, T0010: 1, H0510: 1, H0375: 1, S0022: 1, H0591: 1, H0100: 1, S0142: 1, L0770: 1, L0761: 1, L0794: 1, L0375: 1, S0216: 1, S0374: 1, L0438: 1, H0520: 1, H0539: 1, S0027: 1, L0740: 1, L0751: 1, L0777: 1, L0752: 1, L0757: 1, L0759: 1, L0594: 1, L0366: 1, H0542: 1 and H0543: 1. | 39-61, 71-87 |
| 799 | HTXOX92 | 871693 | 809 | 131 - | 2214 | Ser-31 to Trp-37, | AR033: 20, AR052: 14, | 159-176, |

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L0361: 2, L0366: 2, H0542:
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T0002: 1, H0686: 1, H0713:
1, H0717: 1, H0716: 1,
S6024: 1, S0114: 1, T0049:
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H0656: 1, H0484: 1, H0663:
1, H0450: 1, H0125: 1,
S0418: 1, S0420: 1, S0354:
1, T0008: 1, L0430: 1,
H0722: 1, S0046: 1, H0619:
1, S6026: 1, L0717: 1,
S0278: 1, S0222: 1, H0441:
1, H0610: 1, H0370: 1,
H0613: 1, H0601: 1, H0497:
1, H0331: 1, H0632: 1,
H0485: 1, H0486: 1, L0586:
1, T0109: 1, H0250: 1,
H0069: 1, H0635: 1, H0002:
1, H0590: 1, H0618: 1,
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1, H0085: 1, T0115: 1,
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800	HLJDU57	871712	810	10 - 435	2215	Glu-79 to Tyr-86.	H0506: 1. AR096: 6, AR089: 4, AR052: 3, AR060: 3, AR053: 2, AR033: 2, AR055: 2, AR061: 1, AR104: 1, AR039: 1 H0375: 1, L0649: 1 and H0522: 1.	1-30, 24-49, 92-113, 118-142, 51-71
801	HHFKL03	871735	811	38 - 718	2216	Ile-11 to Arg-16, Val-18 to Ser-25, Ser-28 to Thr-36, Glu-41 to Ser-46.	AR033: 10, AR089: 8, AR052: 7, AR053: 6, AR060: 6, AR096: 6, AR104: 5, AR055: 4, AR039: 3, AR061: 2	122-145, 66-83, 147-163, 171-187, 190-206, 48-64
802	HNTTB69	871818	812	540 - 839	2217	Pro-71 to Pro-80, Pro-87 to Phe-92, Leu-95 to Thr-100.	AR096: 1, AR104: 1, AR060: 1, AR089: 1, AR061: 0, AR033: 0, AR039: 0, AR055: 0, AR052: 0 L0595: 14, H0521: 7, L0783: 5, H0520: 5, H0547: 5, L0593: 5, S0356: 3, H0615: 3, L0794: 3, L0776: 3, H0519: 3, L0747: 3, L0596: 3, H0599: 2, H0251: 2, H0622: 2, H0038: 2, H0494: 2, L0769: 2, L0764: 2, L0771: 2, L0766: 2, L0740: 2, L0754: 2, L0755:	53-69

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						AR055: 6, AR033: 5, AR052: 5, AR053: 5, AR060: 4, AR104: 4, AR096: 4, AR061: 3, AR089: 3, AR039: 0 L0438: 6, L0439: 5, H0661: 3, L0776: 3, H0556: 2, H0100: 2, L0598: 2, L0764: 2, L0766: 2, L0659: 2, H0672: 2, L0777: 2, L0731: 2, H0170: 1, H0171: 1, H0265: 1, H0140: 1, S0114: 1, H0657: 1, H0656: 1, H0638: 1, S0418: 1, S0408: 1, S0046: 1, H0411: 1, S0278: 1, H0550: 1, S0222: 1, T0104: 1, H0600: 1	

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825	HHEFL55	873186	835	98 - 661	2240	Asp-2 to Arg-9	AR089: 1, AR033: 1, AR055: 1, AR061: 0, 2, S0442: 2, H0586: 2, H0587: 2, H0427: 2, H0581: 2, L0157: 2, L0769: 2, L0775: 2, L0806: 2, L0659: 2, L0665: 2, H0144: 2, S0374: 2, L0438: 2, L0731: 2, L0596: 2, L0599: 2, H0685: 1, S0116: 1, H0306: 1, S0358: 1, S0408: 1, H0592: 1, H0706: 1, H0036: 1, S0346: 1, L0307: 1, H0251: 1, H0309: 1, T0110: 1, H0231: 1, H0057: 1, H0014: 1, H0510: 1, S0250: 1, H0252: 1, T0006: 1, H0030: 1, H0031: 1, H0553: 1, H0644: 1, H0361: 1, H0591: 1, H0433: 1, S0002: 1, L0761: 1, L0650: 1, L0784: 1, L0805: 1, L0655: 1, L0606: 1, L0515: 1, L0783: 1, L0809: 1, L0532: 1, L0663: 1, H0690: 1, H0518: 1, S0152: 1, H0521: 1, S0037: 1, L0744: 1, L0777: 1, S0260: 1, L0366: 1, H0677: 1, H0506: 1 and H0008: 1.	145-174, 70-86, 94-

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AR060: 0, AR053: 0,
AR039: 0, AR052: 0
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L0777: 7, L0731: 7, L0803:
6, S0212: 4, L0751: 4,
L0754: 4, S0358: 3, L0794:
3, L0517: 3, L0809: 3,
H0663: 2, S0038: 2, L0637:
2, L0771: 2, L0775: 2,
L0526: 2, L0783: 2, L0790:
2, H0144: 2, H0658: 2,
L0744: 2, L0439: 2, L0752:
2, L0758: 2, L0594: 2,
L0603: 2, H0624: 1, H0656:
1, S0408: 1, H0393: 1,
H0549: 1, H0333: 1, L0477:
1, S0010: 1, H0581: 1,
H0052: 1, H0567: 1, H0571:
1, H0011: 1, H0012: 1,
H0620: 1, H0083: 1, H0099:
1, H0615: 1, H0688: 1,
H0628: 1, H0135: 1, H0038:
1, H0616: 1, H0087: 1,
H0264: 1, H0412: 1, T0042:
1, H0396: 1, H0647: 1,
L0770: 1, L0662: 1, L0768:
1, L0766: 1, L0804: 1,
L0805: 1, L0805: 1, L0776:
1, L0657: 1, L0558: 1,

| 826 | HHFJG66 | 873355 | 836 | 1277 - 2503 | 2241 | Arg-16 to Thr-21, Gly-31 to Thr-36, Thr-53 to Val-68, Val-72 to Ser-86, Ser-121 to Arg-127, Met-151 to Ile-157, Asn-160 to Phe-176, Pro-190 to Val-198, Arg-293 to Gly-298, Glu-304 to Asp-312, Ser-319 to Ser-325, Gln-330 to Glu-336, Leu-386 to Asp-392. | AR055: 6, AR033: 5, AR052: 5, AR089: 5, AR053: 4, AR060: 4, AR061: 4, AR039: 3, AR104: 3, AR096: 2 H0295: 3, H0618: 3, H0052: 3, L0662: 3, H0619: 2, S0222: 2, L0768: 2, L0803: 2, H0521: 2, L0439: 2, L0754: 2, L0779: 2, L0758: 2, H0542: 2, S0114: 1, H0341: 1, H0483: 1, H0559: 1, L0586: 1, H0013: 1, H0253: 1, H0123: 1, H0012: 1, H0271: 1, H0687: 1, H0488: 1, H0413: 1, H0494: 1, S0150: 1, H0529: 1, L0637: 1, L0372: 1, L0643: 1, L0644: 1, L0645: 1, L0774: 1, L0666: 1, L0663: 1, L0664: 1, H0547: 1, H0519: 1, H0690: 1, S0328: 1, S0378: 1, S0190: 1, H0436: 1, S0037: 1, L0792: 1, L0663: 1, H0520: 1, H0547: 1, H0519: 1, H0670: 1, H0672: 1, S0328: 1, S0380: 1, L0779: 1, H0668: 1, H0667: 1, S0192: 1 and H0542: 1. | 240-257, 86-102, 362-378 |

827	HBMWZ85	873653	837	476 - 778	2242	Thr-22 to Thr-33, Leu-92 to Thr-97.	S0027: 1, L0750: 1, L0601: 1, L0366: 1, S0424: 1 and H0506: 1. AR052: 114, AR053: 78, AR096: 69, AR055: 65, AR089: 48, AR039: 46, AR033: 46, AR104: 41, AR061: 38, AR060: 37 S0114: 4, S0010: 3, H0059: 3, H0171: 2, S0116: 2, S0046: 2, S0051: 2, S0126: 2, S0134: 1, S0218: 1, H0255: 1, S0045: 1, S6016: 1, S0222: 1, H0632: 1, H0013: 1, H0251: 1, H0263: 1, H0200: 1, H0628: 1, H0674: 1, H0135: 1, H0038: 1, H0087: 1, T0090: 1, S0150: 1, S0142: 1, S0044: 1, H0576: 1 and S0026: 1.				57-76, 2-18
828	HTTEL61	873679	838	239 - 622	2243	Gln-3 to Trp-10.	AR061: 50, AR033: 45, AR089: 41, AR060: 36, AR055: 35, AR096: 33, AR053: 32, AR052: 32, AR104: 17, AR039: 10 H0040: 2, H0087: 1 and L0750: 1.				67-83
829	HHEKA25	873756	839	61 - 768	2244	Met-1 to Pro-7.	AR061: 11, AR089: 4, L0750: 1.	17p11.2	100710,	122-155,	

						AR039: 4, AR104: 3, AR055: 3, AR052: 3, L0731: 3, H0556: 2, T0109: 2, H0124: 2, L0754: 2, H0483: 1, S0358: 1, H0599: 1, H0081: 1, H0012: 1, H0024: 1, H0615: 1, H0622: 1, H0316: 1, S0036: 1, H0413: 1, H0130: 1, L0766: 1, S0126: 1 and H0542: 1.	182290, 201475, 270200, 601097, 601097, 601097, 602666	194-216, 86-102, 52-68
830	HTLEH76	873788	840	354 - 881	2245	AR055: 5, AR060: 3, AR089: 3, AR061: 3, AR033: 3, AR052: 2, AR104: 1, AR096: 1, AR053: 0, AR039: 0, H0253: 7, H0618: 6, L0758: 2, L0603: 2, H0050: 2, H0014: 1 and L0769: 1.		119-135
831	HHEVQ56	874064	841	325 - 645	2246	AR096: 4, AR033: 3, AR039: 3, AR053: 3, AR104: 3, AR052: 3, AR089: 2, AR061: 2, AR060: 2, AR055: 2, L0439: 5, L0777: 5, H0052: 4, L0803: 4, L0789: 4, L0666: 4, H0556: 3,	Ser-101 to Asn-106.	65-91, 15-36, 42-58

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832	HTPHY39	874346	842	410 -	2247	Asp-2 to Asn-9,		119-139
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833	HPCRR53	874354	841			Val-21 to Leu-29, Pro-31 to Gly-36, Leu-64 to Gly-69, Gln-77 to Tyr-82, Glu-84 to Gly-92, Glu-107 to His-118.	AR053: 8, AR033: 7, AR060: 7, AR089: 7, AR052: 5, AR096: 5, AR061: 5, AR104: 4 H0437: 1, S0280: 1, T0110: 1, H0622: 1, L0745: 1, L0746: 1, L0731: 1 and L0596: 1.	
			843	74 - 454	2248	Arg-112 to Ile-118, Tyr-121 to Ala-127.	AR104: 1, AR096: 1, AR089: 1, AR033: 1, AR060: 1, AR061: 1, AR039: 0, AR055: 0, AR053: 0, AR052: 0	54-77, 86-102
834	HLQEW26	874356	844	226 - 561	2249	Thr-29 to His-47.	AR052: 25, AR089: 20, AR033: 17, AR060: 16, AR055: 15, AR053: 15, AR104: 14, AR039: 9, AR061: 8, AR096: 8 L0662: 5, L0777: 5, L0805: 4, L0779: 4, L0755: 4, S0380: 3, L0750: 3, L0598: 2, L0770: 2, L0769: 2, L0637: 2, L0771: 2, L0774: 2, L0659: 2, L0663: 2, L0438: 2, H0521: 2, S0404: 2, L0439: 2, L0754: 2, S0442: 1, S0358: 1, S0360: 1, S0408: 1, H0574:	7-24, 80-96

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| 836 | HCYBG26 | 874427 | 846 | 11 - 385 | 2251 | Tyr-61 to Thr-67. | AR096: 2, AR055: 1, AR060: 1, AR089: 1, AR053: 0, AR033: 0, AR061: 0, AR104: 0, AR052: 0, AR039: 0 S0028: 3, H0204: 2, S0031: 2, H0381: 1, S0045: 1, L0105: 1, H0617: 1, S0144: 1, S0052: 1, S0152: 1 and S0390: 1. AR039: 82, AR061: 81, AR033: 75, AR104: 70, AR055: 70, AR096: 66, AR089: 60, AR060: 56, | 96-120, 12-36, 69-85, 42-58 |

837	HNGEZ52	874434	847	100 - 1254	2252		AR053: 54, AR052: 41 T0114: 2, H0644: 1, H0144: 1, H0521: 1 and L0750: 1. AR055: 7, AR060: 3, AR053: 3, AR089: 3, AR052: 3, AR061: 2, AR033: 2, AR096: 2, AR039: 0, AR104: 0 S0049: 1, T0090: 1, S0052: 1 and L0779: 1.	238-254, 53-70, 199-215
838	H2LAY37	874446	848	363 - 1172	2253	Asp-30 to Gly-38, Ser-71 to Arg-77, Leu-85 to Gly-91, Asp-127 to Gly-135, Glu-171 to Gly-176, Pro-182 to Glu-187.	AR052: 38, AR039: 15, AR060: 15, AR053: 15, AR033: 12, AR104: 10, AR089: 10, AR096: 9, AR055: 6, AR061: 6 H0638: 74, H0641: 68, L0747: 28, S0358: 26, H0521: 24, L0748: 23, S0360: 18, S0408: 18, L0754: 18, H0659: 15, L0757: 14, L0731: 13, H0250: 12, H0494: 12, S0026: 12, S0444: 11, S0440: 11, L0749: 11, S0328: 10, S0206: 9, L0750: 9, S0132: 8, H0574: 8, S0144: 8, L0740: 8, S0007: 7, S0414: 7, S0142: 7,	51-67, 214-230, 232-248

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S0278: 2, H0549: 2, H0537: 2, H0333: 2, H0069: 2, T0110: 2, H0544: 2, H0150: 2, L0471: 2, H0060: 2, H0109: 2, H0266: 2, H0328: 2, H0615: 2, H0031: 2, H0553: 2, H0644: 2, H0032: 2, S0438: 2, H0633: 2, L0762: 2, L0372: 2, L0646: 2, L0764: 2, L0662: 2, L0806: 2, L0654: 2, L0776: 2, L0789: 2, L0563: 2, L0664: 2, L0665: 2, H0682: 2, H0670: 2, L0602: 2, H0696: 2, S0404: 2, H0627: 2, L0751: 2, L0745: 2, L0588: 2, L0591: 2, L0581: 2, L0595: 2, L0361: 2, H0543: 2, H0352: 2, H0170: 1, L0615: 1, H0265: 1, H0141: 1, H0159: 1, H0585: 1, S0342: 1, H0294: 1, S0114: 1, S0430: 1, H0656: 1, S0212: 1, H0671: 1, H0661: 1, H0305: 1, H0125: 1, S0418: 1, S0354: 1, H0675: 1, H0637: 1, H0722: 1, H0208: 1, S0476: 1, H0393: 1, H0411: 1, H0586: 1, H0587: 1, H0497: 1,

H0642: 1, H0643: 1, H0632: 1, T0040: 1, S0280: 1,	
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H0040: 1, H0087: 1, H0551: 1, H0116: 1, H0272: 1,	
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L0520: 1, L0761: 1, L0667: 1, L0772: 1, L0645: 1,	
L0773: 1, L0521: 1, L0626: 1, L0794: 1, L0649: 1,	
L0522: 1, L0774: 1, L0653: 1, L0379: 1, L0657: 1,	
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839	HCRNDO5	874528	849	88 - 534	2254	Ala-142 to Ser-149.	L0647: 1, S0052: 1, H0703: 1, H0689: 1, H0690: 1, H0435: 1, H0672: 1, S0378: 1, S0380: 1, S0152: 1, H0523: 1, H0555: 1, H0187: 1, H0631: 1, S0028: 1, S0032: 1, L0744: 1, S0260: 1, S0308: 1, S0434: 1, L0592: 1, L0608: 1, L0603: 1, H0668: 1, H0665: 1, H0136: 1, S0192: 1, S0196: 1, S0424: 1, S0462: 1, H0506: 1 and H0293: 1.	6-39, 87-110, 58-74, 1-17
840	HCRNP66	874529	850	115 -	2255		AR096: 9, AR052: 9, AR104: 7, AR053: 6, AR039: 6, AR060: 5, AR089: 5, AR055: 4, AR033: 4, AR061: 3, H0551: 4, L0665: 3, H0547: 3, S0356: 2, S0360: 2, L0662: 2, L0527: 2, L0666: 2, L0754: 2, H0333: 1, H0012: 1, H0688: 1, H0553: 1, H0477: 1, L0770: 1, L0769: 1, L0650: 1, L0606: 1, L0790: 1, H0520: 1, H0682: 1, L0747: 1, L0779: 1 and L0755: 1. AR053: 52, AR096: 36,	113-140,

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841	HNTMD17	874559	851	266 - 790	2256	Met-1 to Tyr-14, Val-91 to Pro-99, Asp-101 to Gln-112.	AR033: 8, AR096: 6, AR052: 5, AR039: 5, AR053: 4, AR089: 4, AR104: 4, AR060: 3, AR055: 2, AR061: 2, L0438: 4, L0746: 4, H0717: 2, H0013: 2, H0581: 2, H0656: 1, H0580: 1, H0415: 1, H0069: 1, H0590: 1, L0471: 1, S6028: 1, H0266: 1, S0003: 1, H0328: 1, H0553: 1, H0644: 1, H0591: 1, H0038: 1, S0438: 1, H0647: 1, H0529: 1, L0766: 1, S0374: 1, H0520: 1, H0547: 1, H0521: 1, L0752: 1, S0434: 1, S0192: 1 and H0542: 1.	155-171, 38-54
842	HMCGZ52	874610	852	243 - 1187	2257	Pro-30 to Trp-38, Pro-100 to Lys-109, Tyr-129 to Ala-136, Val-144 to Lys-153, Pro-173 to Gly-178, Phe-193 to Asn-201,	AR055: 9, AR033: 8, AR052: 5, AR060: 5, AR096: 4, AR089: 4, AR061: 3, AR053: 3, AR104: 3, AR039: 2, L0779: 6, S0358: 4,	37-61, 12-28, 70-86, 238-254

| 843 | HOSOL09 | 874620 | 853 | 126 - 725 | 2258 | Gly-3 to His-9, Pro-88 to Lys-93, Arg-112 to Trp-117. | AR053: 2, AR096: 2, AR060: 2, AR061: 1, AR089: 0, AR052: 0, AR033: 0 S0356: 10, S0422: 3, L0766: 3, L0803: 3, S0330: 3, H0486: 2, L0743: 2, L0731: 2, H0170: 1, L0785: 1, S0116: 1, S0442: 1, S0354: 1, S0358: 1, S0410: 1, S0278: 1, H0642: 1, H0581: 1, H0596: 1, H0355: 1, S0003: 1, L0455: 1, H0090: 1, H0591: 1, S0142: | |
| | | | | | | Glu-223 to Gly-239, Thr-258 to Gln-263, Arg-286 to Ser-292, Cys-300 to Gln-306. | H0596: 3, S0002: 3, H0521: 3, S0344: 2, L0766: 2, L0651: 2, L0805: 2, L0776: 2, L0666: 2, S0380: 2, S0406: 2, L0756: 2, S0434: 2, S0444: 1, S0360: 1, H0675: 1, H0676: 1, H0318: 1, H0046: 1, H0050: 1, H0083: 1, H0688: 1, H0628: 1, H0413: 1, L0520: 1, L0638: 1, L0373: 1, L0646: 1, L0800: 1, L0662: 1, L0794: 1, L0652: 1, L0657: 1, L0659: 1, S0374: 1, H0670: 1, L0750: 1, L0777: 1, L0731: 1 and H0543: 1. | 50-84, 25-43, 120-136 |

844	HLQHJ48	874643	854	32 - 751	2259	Pro-2 to Gly-11, Gln-14 to Pro-19, Ala-92 to Asn-101, Gly-132 to Gly-137, Leu-145 to Pro-160, Asp-183 to Gly-191.	AR055: 11, AR060: 5, AR053: 5, AR061: 5, AR033: 4, AR089: 4, AR052: 4, AR039: 3, AR096: 2, AR104: 2 L0439: 6, L0777: 3, H0632: 2, L0756: 2, S0360: 1, H0050: 1, H0688: 1, H0412: 1, H0494: 1, H0520: 1, H0670: 1 and L0758: 1.	1, S0344: 1, S0426: 1, L0598: 1, L0794: 1, L0804: 1, L0659: 1, L0809: 1, L0789: 1, L0664: 1, H0547: 1, H0660: 1, S0378: 1, L0751: 1, L0754: 1, L0779: 1, L0780: 1, L0758: 1, L0608: 1, S0026: 1 and H0543: 1.	223-240
845	HTTDU01	874708	855	117 - 989	2260	Ala-133 to Gly-140, Val-165 to Gly-173.	AR052: 33, AR053: 21, AR096: 18, AR089: 15, AR060: 13, AR055: 12, AR104: 12, AR033: 11, AR039: 8, AR061: 7 L0803: 6, H0040: 3, H0038: 2, L0756: 2, L0485: 2, L0593: 2, T0002: 1, S0040: 1, H0664: 1, S0356: 1, S0010: 1, T0110: 1,		51-69, 207-223, 141-157, 16-32, 186-202, 80-96

846	HOSMQ26	874847	856	26 - 424	2261	Lys-8 to Thr-14, Glu-28 to Arg-34.	6p22	248611	103-130, 75-91

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AR055: 9, AR060: 8,
AR096: 6, AR052: 6,
AR033: 6, AR053: 5,
AR089: 4, AR061: 4,
AR104: 4, AR039: 4
L0747: 4, L0777: 4,
L0753: 4, L0588: 4, H0046: 3, L0766: 3, H0313: 2,
L0374: 2, L0764: 2, L0773: 2, L0776: 2, H0659: 2,
L0748: 2, L0752: 2, L0591: 2, H0542: 2, T0002: 1,
S0040: 1, S0212: 1, H0663: 1, S0418: 1, S0376: 1,
S0045: 1, H0351: 1, H0497: 1, H0263: 1, H0123: 1,
S0003: 1, H0615: 1, H0068: 1, H0090: 1, H0264: 1,
H0538: 1, S0002: 1, S0426: 1, H0529: 1, L0769: 1,
L0372: 1, L0642: 1, L0662:

847	HE8FA47	874915	857	1011 - 235	2262	Ser-59 to Trp-77, Lys-143 to Asp-150, Tyr-254 to Lys-259.	1, L0803: 1, L0375: 1, L0655: 1, L0659: 1, L0789: 1, H0520: 1, H0547: 1, H0660: 1, S0404: 1, H0631: 1, S3014: 1, L0749: 1, L0750: 1, L0779: 1, L0757: 1, L0581: 1, L0362: 1, S0276: 1 and H0423: 1.	103-137, 80-105, 165-184, 221-241, 195-211

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| 848 | HMTME42 | 874948 | 858 | 38 - 547 | 2263 | Glu-4 to Ala-10, Glu-24 to Glu-30, Glu-34 to Lys-43, Gly-69 to Cys-78, Asn-127 to Glu-132, Arg-145 to Phe-150. | AR039: 1, AR053: 1, AR033: 1, AR096: 1, AR052: 1, AR104: 1, AR089: 1, AR061: 1, AR060: 1, AR055: 0 H0031: 2, S0126: 2, L0748: 2, H0624: 1, H0341: 1, S0282: 1, S0046: 1, H0369: 1, H0431: 1, H0244: 1, T0082: 1, H0012: 1, H0266: 1, H0615: 1, H0039: 1, H0032: 1, H0090: 1, H0551: 1, S0002: 1, H0529: 1, L0794: 1, L0766: 1, L0791: 1, H0144: 1, H0520: 1, H0525: 1, H0436: 1, S0031: 1, L0592: 1, L0485: 1, H0665: 1 and H0543: 1. | 76-93 |
| 849 | HRADL60 | 874960 | 859 | 194 - 1183 | 2264 | Met-22 to Arg-28. | AR060: 2, AR055: 2, AR033: 2, AR089: 2, AR096: 1, AR061: 1, AR052: 1, AR104: 0, AR039: 0, AR053: 0 L0777: 12, L0766: 9, L0803: 6, L0748: 5, L0752: 5, L0758: 5, L0759: 5, L0666: 4, L0794: 3, L0805: 3, L0743: 3, L0747: 3, S0222: 2, H0457: 2, S0003: 2, L0649: 2, L0804: 2, | 130-146, 208-225, 1-17, 183-199 |

| 850 | HWLMB5 5 | 875096 | 860 | 231-947 | 2265 | Ser-69 to Asp-76, Pro-126 to Gly-131, Asp-137 to Arg-144. | L0809: 2, L0663: 2, L0664: 2, H0539: 2, L0744: 2, L0740: 2, L0596: 2, L0362: 2, S0026: 2, H0624: 1, H0170: 1, H0717: 1, T0049: 1, H0402: 1, H0638: 1, S0420: 1, L0454: 1, S0356: 1, S0444: 1, S0360: 1, H0637: 1, H0393: 1, L0717: 1, H0486: 1, T0082: 1, L0163: 1, H0594: 1, H0266: 1, H0416: 1, H0328: 1, H0622: 1, T0006: 1, H0553: 1, H0674: 1, H0163: 1, H0038: 1, H0634: 1, H0616: 1, H0551: 1, H0625: 1, H0538: 1, L0598: 1, L0770: 1, L0646: 1, L0764: 1, L0662: 1, L0375: 1, L0515: 1, L0659: 1, L0783: 1, L0789: 1, L0791: 1, T0068: 1, H0520: 1, H0547: 1, H0684: 1, H0658: 1, H0518: 1, S0013: 1, S0146: 1, H0555: 1, L0779: 1, L0780: 1, L0757: 1 and S0462: 1. AR039: 1, AR089: 1, AR061: 1, AR104: 1, AR060: 1, AR096: 1, AR033: 1, AR055: 0, | 89-105, 13-29 |

851	HUSGZ51	875230	861	9 - 1262	2266			249-265
						Ile-43 to Arg-50, Phe-75 to Pro-83, Leu-109 to Val-116, Ile-122 to Thr-127, Pro-137 to Gly-149, Arg-184 to Gly-213, Lys-221 to Glu-228.	AR033: 13, AR053: 11, AR052: 10, AR089: 10, AR055: 7, AR060: 5, AR061: 5, AR096: 5, AR039: 4, AR104: 1 H0556: 10, L0748: 8, H0620: 7, L0747: 7, H0265: 5, L0637: 5, H0013: 4, H0551: 4, L0776: 4, L0663: 4, L0596: 4, H0622: 3, H0617: 3, L0772: 3, L0766: 3, S0126: 3, L0751: 3, L0752: 3, L0757: 3, S0031: 3, L0593: 3, H0657: 2, S0360: 2, S0222: 2, T0115: 2, H0009: 2, L0471: 2, H0594: 2, H0288: 2, H0039:	
							AR052: 0, AR053: 0 S0442: 6, L0777: 6, L0731: 5, L0775: 4, H0024: 3, H0586: 2, H0648: 2, H0521: 2, L0748: 2, H0638: 1, S0358: 1, S0376: 1, S0360: 1, H0587: 1, H0641: 1, H0646: 1, L0770: 1, L0643: 1, L0363: 1, L0803: 1, L0804: 1, L0783: 1, L0787: 1, L0666: 1, L0665: 1, H0593: 1, H0518: 1, S0406: 1 and L0779: 1.		

2, H0424: 2, H0135: 2,
H0040: 2, H0623: 2, L0763:
2, L0769: 2, L0796: 2,
L0804: 2, L0775: 2, L0634:
2, L0666: 2, L0438: 2,
L0756: 2, H0445: 2, L0595:
2, H0542: 2, H0423: 2,
H0422: 2, T0002: 1, S0114:
1, S0218: 1, H0661: 1,
S0358: 1, S0007: 1, S0046:
1, S0132: 1, S0278: 1,
H0431: 1, H0370: 1, H0586:
1, H0632: 1, H0486: 1,
T0040: 1, S0280: 1, H0318:
1, H0581: 1, H0085: 1,
T0110: 1, H0545: 1, H0081:
1, S0362: 1, H0247: 1,
H0266: 1, H0290: 1, H0292:
1, H0286: 1, S0340: 1,
S0036: 1, H0090: 1, H0591:
1, H0038: 1, H0616: 1,
H0433: 1, H0412: 1, S0038:
1, H0494: 1, H0561: 1,
S0352: 1, S0144: 1, S0142:
1, L0369: 1, L0761: 1,
L0372: 1, L0646: 1, L0374:
1, L0764: 1, L0771: 1,
L0773: 1, L0381: 1, L0388:
1, L0774: 1, L0651: 1,
L0378: 1, L0657: 1, L0658:

852	HWDAN86	875249	862	891 - 1205	2267	1, L0383: 1, L0665: 1, L0352: 1, H0593: 1, H0689: 1, H0682: 1, H0660: 1, S0328: 1, H0696: 1, S0044: 1, S0406: 1, S0037: 1, S3014: 1, S0206: 1, L0439: 1, L0754: 1, L0749: 1, L0750: 1, L0731: 1, L0759: 1, L0588: 1, L0362: 1, L0361: 1, H0653: 1, H0136: 1, S0196: 1, H0543: 1 and S0424: 1. AR052: 9, AR033: 8, AR055: 7, AR089: 7, AR096: 6, AR053: 6, AR060: 5, AR039: 5, AR104: 5, AR061: 4 L0769: 7, L0754: 7, L0777: 7, H0521: 5, L0809: 4, L0751: 4, H0556: 3, L0764: 3, L0771: 3, L0776: 3, H0555: 3, L0439: 3, H0624: 2, H0171: 2, S0442: 2, S0408: 2, H0318: 2, L0163: 2, H0673: 2, H0038: 2, S0142: 2, L0766: 2, H0539: 2, L0748: 2, L0750: 2, L0756: 2, L0731: 2, H0445: 2, H0265: 1, H0685: 1, H0717: 1, H0295: 1,	19q13	109560, 205900, 600652, 600757	55-71, 23-39

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853	HFATS83	875269	863	126 -	2268				58-74
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854	HBION06	875295	864	470	2269		
					774 - 1532	Asn-18 to Cys-29, Tyr-51 to Tyr-59, Asp-113 to Gly-120, Ala-125 to Gly-130, Ala-212 to Ala-224.	AR052: 28, AR053: 25, AR089: 10, AR055: 8, AR096: 8, AR033: 6, AR060: 4, AR039: 3, AR061: 3, AR104: 1 L0761: 8, L0806: 5, H0593: 5, H0436: 5, H0581: 4, H0052: 4, L0766: 4, H0521: 4, L0745: 4, L0731: 4, L0759: 4, S0356: 3, L0600: 3, H0624: 2, H0713: 2, H0333: 2, H0618: 2, H0546: 2, H0545: 2, H0457: 2, H0617: 2, H0606: 2, H0100: 2, L0770: 2, L0764: 2, L0774: 2, L0775: 2, L0653: 2, L0659: 2, L0547: 2, L0809: 2, L0666: 2, H0672: 2, H0539: 2, H0522: 2, L0751: 2, L0747: 2, L0750: 2, L0752: 2, L0757: 2, H0543: 2, H0583: 1, H0341: 1, H0484: 1, H0669: 1, H0306: 1, H0458: 1, S0418: 1, S0420: 1, H0675:	AR089: 2, AR060: 2, AR033: 2, AR096: 1, AR055: 1, AR061: 1, AR104: 0, AR039: 0 S0300: 1 and H0204: 1.	148-164, 178-194, 61-77

| 855 | HAPOO57 | 875330 | 865 | 41 - 1363 | 2270 | Thr-94 to Ala-102. | 1, H0676: 1, S0045: 1, H0550: 1, H0392: 1, H0592: 1, H0586: 1, H0587: 1, H0485: 1, H0635: 1, H0575: 1, H0253: 1, H0318: 1, H0544: 1, H0009: 1, H0688: 1, H0634: 1, H0087: 1, H0551: 1, L0351: 1, S0438: 1, H0641: 1, H0649: 1, S0002: 1, H0695: 1, L0763: 1, L3904: 1, L0773: 1, L0767: 1, L0649: 1, L0803: 1, L0650: 1, L0375: 1, L0776: 1, L0657: 1, L0783: 1, L4501: 1, L0663: 1, L0565: 1, H0519: 1, S0126: 1, H0689: 1, H0683: 1, H0684: 1, H0659: 1, H0670: 1, S0330: 1, S0380: 1, H0696: 1, H0134: 1, H0555: 1, L0609: 1, S0027: 1, S0028: 1, L0741: 1, L0743: 1, L0439: 1, L0777: 1, L0780: 1, S0434: 1, S0436: 1, H0216: 1, H0542: 1, H0423: 1 and H0506: 1. AR052: 7, AR096: 6, AR061: 5, AR089: 5, AR053: 5, AR055: 4, AR060: 4, AR033: 4, | 125-156, 358-387, 215-247, 68-90, |

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5, L0665: 5, L0754: 5,
L0756: 5, L0752: 5, L0663:
4, L0749: 4, H0575: 3,
S0126: 3, L0740: 3, L0751:
3, L0747: 3, L0757: 3,
H0657: 2, L0415: 2, S0356:
2, H0590: 2, S0003: 2,
S0214: 2, H0644: 2, H0059:
2, S0422: 2, L0769: 2,
L0800: 2, L0771: 2, L0662:
2, L0649: 2, L0803: 2,
L0657: 2, L0659: 2, L0666:
2, L0438: 2, H0555: 2,
L0750: 2, L0731: 2, S0194:
2, H0556: 1, T0002: 1,
H0716: 1, S0218: 1, H0656:
1, H0662: 1, S0358: 1,
S0376: 1, S0360: 1, S0408:
1, S0045: 1, S0476: 1,
S0278: 1, H0632: 1, H0013:
1, H0156: 1, H0002: 1,
H0036: 1, H0052: 1, L0738:
1, H0545: 1, H0046: 1,
L0471: 1, H0020: 1, H0051:
1, H0622: 1, H0030: 1,
H0617: 1, L0055: 1, H0708:
1, H0316: 1, H0412: 1, | |

856	HCROG59	875405	866	198 - 581	2271	Met-1 to Leu-8.		17q23		107-128
							H0641: 1, H0529: 1, L0763: 1, L0764: 1, L0794: 1, L0389: 1, L0650: 1, L0805: 1, L0809: 1, L0543: 1, L0664: 1, S0374: 1, H0547: 1, H0690: 1, H0659: 1, H0660: 1, H0666: 1, S0380: 1, H0631: 1, S3014: 1, L0755: 1, L0759: 1, S0434: 1, H0665: 1, S0242: 1, S0276: 1 and H0423: 1.	AR060: 3, AR089: 2, AR096: 2, AR053: 2, AR061: 2, AR033: 2, AR055: 2, AR039: 1, AR052: 1, AR104: 1 L0803: 5, L0777: 5, H0549: 3, H0150: 3, L0774: 3, L0809: 3, L0731: 3, H0662: 2, H0251: 2, L0769: 2, L0764: 2, L0648: 2, L0805: 2, L0746: 2, L0750: 2, L0779: 2, H0484: 1, S0356: 1, L0717: 1, H0550: 1, S0280: 1, T0082: 1, H0123: 1, H0024: 1, H0328: 1, H0644: 1, H0068: 1, L0794: 1, L0659: 1, H0693: 1, H0547: 1, H0689: 1, H0658: 1, H0696: 1, S0146:		106180, 138700, 139250, 150200, 154275, 176960, 249000, 253250	

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| 858 | HHFIY07 | 875510 | 868 | 82 - 552 | 2273 | Glu-43 to Lys-51, Lys-94 to Ser-99. | AR033: 4, AR060: 2, AR089: 2, AR061: 1, AR096: 1, AR055: 1, AR039: 0, AR053: 0, AR104: 0, AR052: 0 L0777: 5, L0803: 4, H0539: 3, H0521: 3, L0439: 3, L0755: 3, L0731: 3, S0420: 2, H0619: 2, H0421: 2, S0049: 2, H0617: 2, L0640: 2, L0794: 2, L0658: 2, H0693: 2, S0126: 2, L0748: 2, L0747: 2, L0749: 2, L0759: 2, L0588: 2, L0601: 2, H0294: 1, H0650: 1, H0484: 1, H0306: 1, S0356: 1, S0442: 1, S0358: 1, S0007: 1, L0717: 1, | 125-153 |

859	HOFMV44	875558	869	212 - 1138	2274			
					Arg-88 to Trp-97, Ser-106 to Ser-115, Gly-130 to Tyr-137, Pro-146 to Trp-151, Val-187 to Ser-196, Ile-234 to Val-246, Pro-249 to Thr-255, Thr-280 to Ser-288.	AR096: 3, AR052: 3, AR033: 2, AR089: 2, AR053: 2, AR055: 2, AR060: 1, AR061: 1, AR104: 1, AR039: 0 H0556: 2, H0305: 2, H0589: 2, S0356: 1, S0132: 1, H0415: 1, H0635: 1, S6028: 1, H0598: 1, H0591: 1, H0494: 1, S0002: 1, L0766: 1, L0803: 1, H0539: 1, L0740: 1 and L0777: 1.	H0592: 1, H0069: 1, H0618: 1, H0253: 1, S0010: 1, H0545: 1, H0150: 1, H0620: 1, H0488: 1, H0412: 1, H0494: 1, S0440: 1, L0770: 1, L0796: 1, L0637: 1, L0761: 1, L0772: 1, L0646: 1, L0764: 1, L0766: 1, L0774: 1, L0806: 1, L0776: 1, L0657: 1, L0788: 1, L0789: 1, L0791: 1, L0666: 1, L0663: 1, L0665: 1, H0519: 1, H0593: 1, H0690: 1, H0682: 1, H0435: 1, H0518: 1, H0555: 1, L0743: 1, L0750: 1, L0779: 1, L0757: 1, L0758: 1, S0031: 1, S0434: 1 and H0542: 1.	205-224, 161-177, 61-77, 114-130, 21-37

| 860 | HSLJN60 | 875559 | 870 | 51 - 392 | 2275 | Pro-107 to Asn-114. | AR055: 11, AR052: 6, AR061: 5, AR089: 5, AR060: 5, AR096: 4, AR033: 4, AR053: 4, AR039: 3, AR104: 1 H0031: 2, L0731: 2, L0599: 2, H0052: 1, H0263: 1, S0250: 1, H0606: 1, L0055: 1, H0169: 1, H0560: 1, H0509: 1, L0644: 1, L0766: 1, L0661: 1, L0526: 1, L0666: 1, S0380: 1, S0390: 1, L0779: 1, L0608: 1 and S0462: 1. | | 40-61, 64-80 |
| 861 | HWHGQ04 | 875575 | 871 | 240 - 662 | 2276 | Pro-63 to Cys-69. | AR039: 2, AR033: 2, AR089: 1, AR061: 1, AR052: 1, AR060: 1, AR096: 0, AR055: 0, AR104: 0, AR053: 0 L0758: 6, L0743: 5, S0366: 4, L0770: 4, L0662: 4, H0253: 3, H0591: 3, L0749: 3, L0779: 3, L0731: 3, H0656: 2, S0360: 2, H0586: 2, H0270: 2, H0052: 2, H0009: 2, L0766: 2, L0776: 2, S0328: 2, L0747: 2, L0605: 2, L0485: 2, S0114: 1, H0650: 1, H0657: 1, S0116: 1, S0001: 1, | 17 | 45-63, 88-104 |

862	HCQDA63	875590	872	758 - 1150	2277	Cys-107 to Pro-113.	H0255: 1, S0356: 1, S0354: 1, H0455: 1, H0333: 1, H0599: 1, H0706: 1, H0421: 1, S0049: 1, H0309: 1, H0597: 1, L0471: 1, H0012: 1, H0057: 1, H0286: 1, H0428: 1, H0039: 1, H0213: 1, H0708: 1, S0036: 1, H0090: 1, H0488: 1, T0042: 1, S0464: 1, H0641: 1, S0002: 1, L0639: 1, L0761: 1, L0772: 1, L0372: 1, L0646: 1, L0641: 1, L0764: 1, L0381: 1, L0774: 1, L0651: 1, L0806: 1, L0655: 1, L0783: 1, L0663: 1, H0520: 1, H0689: 1, H0690: 1, H0670: 1, H0672: 1, H0539: 1, H0710: 1, S0044: 1, S0404: 1, L0744: 1, L0751: 1, L0750: 1, L0753: 1, H0444: 1, S0434: 1, S0011: 1, S0276: 1, S0196: 1, S0042: 1, S0458: 1 and H0677: 1.	AR052: 36, AR053: 21, AR055: 11, AR033: 11, AR060: 10, AR039: 10, AR104: 10, AR096: 10, AR089: 7, AR061: 6	66-86, 46-62

863	HMUBG89	875597	873	366 - 37	2278	L0803: 4, L0439: 3, L0777: 3, H0596: 2, L0471: 2, L0794: 2, L0776: 2, L0438: 2, L0744: 2, L0748: 2, L0750: 2, L0592: 2, S0470: 1, S0430: 1, S0222: 1, H0590: 1, S0474: 1, H0439: 1, H0024: 1, H0673: 1, H0400: 1, H0494: 1, L0521: 1, L0805: 1, L0664: 1, H0670: 1, H0555: 1, S0027: 1 and L0596: 1.	41-58, 73-89, 2-18, 94-110
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864	HCFCS58	875638	874	1392 - 1009	2279	AR033: 1, AR055: 1, AR089: 1, AR061: 1, AR060: 0, AR039: 0, AR096: 0, AR053: 0, AR052: 0, AR104: 0	89-109, 19-35, 70-86

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865	HWLMC49	875704	176 - 490	875	2280	Ser-45 to Gly-51	AR033: 10, AR089: 7, AR053: 6, AR061: 6, AR096: 6, AR055: 5, AR039: 5, AR052: 5, AR060: 4, AR104: 2 L0748: 2, S0376: 1, H0611: 1, H0036: 1, H0318: 1, H0052: 1 and L0766: 1.	83-105, 26-42
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| 870 | HFXIKZA4 | 875911 | 880 | 13 - 528 | 2285 | Ser-67 to Tyr-93, Thr-109 to Arg-116. | H0586: 1, H0596: 1, S0250: 1, S0152: 1, H0521: 1 and L0758: 1. AR104: 15, AR061: 14, AR055: 13, AR033: 11, AR052: 11, AR089: 11, AR060: 10, AR096: 7, AR053: 7, AR039: 5, L0731: 5, L0758: 5, H0620: 3, L0766: 3, S0360: 2, S0002: 2, L0809: 2, L0791: 2, L0748: 2, L0439: 2, L0747: 2, L0601: 2, H0556: 1, S0282: 1, H0125: 1, S0408: 1, H0549: 1, H0550: 1, S0222: 1, H0438: 1, H0592: 1, T0114: 1, H0581: 1, H0596: 1, S6028: 1, H0622: 1, H0135: 1, H0087: 1, H0059: 1, H0529: 1, L0769: 1, L0761: 1, L0372: 1, L0646: 1, L0804: 1, L0774: 1, L0776: 1, L0783: 1, L0543: 1, H0670: 1, H0555: 1, S3012: 1, L0757: 1, S0260: 1, L0596: 1 and L0361: 1. | | | 1-24, 37-60 |
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872	HDABX38	875997	882	172-975	2287		Glu-27 to Ser-34, Arg-106 to Asn-122, Arg-154 to Lys-163, Arg-214 to Tyr-225.	AR039: 17, AR053: 16, AR033: 12, AR052: 12, AR104: 12, AR096: 11, AR060: 10, AR055: 10, AR089: 9, AR061: 4 S0354: 1, H0497: 1, H0263: 1, H0551: 1, L0475: 1, H0547: 1, H0521: 1 and H0631: 1.	129-151, 185-201
873	HETJZ14	876053	883	2790-1531	2288		Tyr-57 to Gly-66, Asp-91 to Lys-101, Val-131 to Gly-137, Asn-146 to His-152, Phe-200 to Arg-209, Leu-217 to Cys-222, Pro-326 to Asn-332, Lys-360 to Phe-375, Val-397 to Ile-405.	AR055: 6, AR061: 6, AR033: 5, AR060: 4, AR052: 4, AR053: 3, AR089: 3, AR096: 3, AR104: 3, AR039: 2, L0766: 14, H0423: 9, L0659: 8, H0170: 6, H0657: 6, H0624: 4, S0420: 4, H0486: 4, H0013: 4, L0794: 4, L0666: 4, S0328: 4, H0521: 4, L0754: 4, L0731: 4, S0418: 3, S0356: 3,	303-322, 229-245, 154-170, 248-264

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2, L0803: 2, S0126: 2,
L0755: 2, L0588: 2, L0599:
2, L0595: 2, H0171: 1,
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H0309: 1, H0545: 1, H0050:
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H0271: 1, S0214: 1, H0328:
1, T0023: 1, H0031: 1,
H0628: 1, L0455: 1, S0036:
1, H0163: 1, H0090: 1,
H0634: 1, T0067: 1, H0268:
1, H0412: 1, H0413: 1,
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L0761: 1, L0649: 1, L0774:
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874	HFCFB73	876111	884	217 - 1341	2289			
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875	H2LAJ32	876142	885	208 - 561	2290		AR052: 5, AR055: 5, AR053: 4, AR060: 4, AR039: 3, AR033: 3, AR096: 3, AR061: 3, AR089: 3, AR104: 2	34-65
876	HTPIQ89	876198	886	219 - 575	2291	Met-1 to Thr-12.	AR055: 12, AR089: 7, AR033: 7, AR060: 6, AR052: 6, AR061: 6, AR053: 4, AR104: 4, AR039: 4, AR096: 2	76-95, 46-64
877	HTDAI12	876209	887	298 - 870	2292	Gly-100 to Arg-106, Ser-111 to Cys-116.	AR089: 6, AR096: 6, AR033: 4, AR052: 4, AR053: 3, AR060: 3, AR039: 2, AR104: 2,	129-156

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H0039: 1, H0622: 1, L0764: 1, L0659: 1, L0809: 1, S0406: 1 and H0506: 1.

878	HWLGV14	876226	888	169 - 978	2293	Arg-16 to Thr-21.	AR055: 2, AR061: 1 S0360: 3, S0354: 2, H0637: 2, S0298: 1, H0427: 1, H0477: 1 and H0445: 1.	198-229, 63-92, 126-151, 97-115
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880	HE9RM22	876418	890	322 - 660	2295		AR039: 19, AR053: 16, AR055: 15, AR033: 14, AR089: 13, AR096: 11, AR060: 11, AR052: 11, AR104: 10, AR061: 7 L0794: 4, H0263: 1, H0327: 1, L0763: 1, L0666: 1, L0663: 1, L0438: 1, S0378: 1, L0747: 1 and L0759: 1.	41-66, 13-29
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| 881 | HMUBP81 | 876452 | 891 | 1078 - 200 | 2296 | Met-1 to Arg-10, Val-22 to Ser-27, Asp-34 to Thr-39, Glu-115 to Arg-121, Leu-162 to Ser-169, Ile-266 to Ser-271. | 1, H0100: 1, L0803: 1, L0651: 1, L0776: 1, L0512: 1, H0144: 1 and L0352: 1. AR039: 34, AR033: 17, AR053: 15, AR104: 13, AR096: 13, AR089: 13, AR052: 11, AR055: 10, AR060: 10, AR061: 6 L0777: 10, L0769: 4, L0764: 3, L0740: 3, S0360: 2, T0042: 2, L0766: 2, L0775: 2, L0748: 2, L0779: 2, L0603: 2, H0650: 1, H0341: 1, S0358: 1, S0376: 1, L0021: 1, H0263: 1, H0046: 1, H0412: 1, H0529: 1, L0662: 1, L0767: 1, L0774: 1, L0776: 1, L0665: 1, H0648: 1, S0330: 1, L0755: 1, L0759: 1 and H0667: 1. | 225-252, 50-66 |
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| 883 | HOBAE30 | 876533 | 893 | 388 - 699 | 2298 | Lys-25 to Lys-31, His-36 to Gln-42, Gln-84 to Cys-90. | L0369: 2, L0662: 2, L0766: 2, L0517: 2, L0665: 2, H0670: 2, S0380: 2, H0521: 2, L0740: 2, S0356: 1, S0376: 1, S0444: 1, S0360: 1, S0408: 1, H0329: 1, L0717: 1, H0497: 1, L0021: 1, H0004: 1, H0052: 1, H0044: 1, H0687: 1, T0006: 1, H0553: 1, H0674: 1, H0413: 1, H0633: 1, L0763: 1, L0770: 1, L0638: 1, L0667: 1, L0772: 1, L0764: 1, L0773: 1, L0794: 1, L0804: 1, L0774: 1, L0775: 1, L0653: 1, L0527: 1, L0518: 1, L0809: 1, L0438: 1, S0330: 1, H0696: 1, L0744: 1, L0748: 1, L0779: 1, L0777: 1, L0752: 1, L0757: 1, H0343: 1, S0434: 1, L0590: 1, S0011: 1, H0667: 1, S0194: 1, S0196: 1 and H0423: 1. AR096: 2, AR089: 1, AR053: 1, AR033: 1, AR060: 1, AR061: 1, AR039: 0, AR055: 0, L0754: 8, L0803: 6, L0748: 4, L0766: 3, S0376: 1 | 62-85, 1-23 |

884	HDABK73	876546	894	508 - 2508	2299	Glu-6 to Thr-20, Glu-63 to Met-74, Gln-79 to Thr-87, Ser-90 to Glu-105, Pro-113 to Gln-136, Phe-232 to Lys-249.	AR053: 12, AR052: 9, AR096: 8, AR089: 5, AR039: 4, AR055: 4, AR033: 3, AR060: 3, AR061: 3, AR104: 2 H0497: 1, H0263: 1 and L0601: 1.	2, S0444: 2, S0360: 2, H0529: 2, L0663: 2, H0445: 2, L0603: 2, H0543: 2, H0657: 1, H0638: 1, S0420: 1, H0580: 1, H0393: 1, S0300: 1, L0717: 1, H0431: 1, H0643: 1, H0156: 1, H0581: 1, H0251: 1, H0014: 1, S0051: 1, S0003: 1, H0644: 1, H0090: 1, H0040: 1, S0472: 1, S0426: 1, L0598: 1, L0800: 1, L0641: 1, L0771: 1, L0521: 1, L0662: 1, L0768: 1, L0775: 1, L0805: 1, L0606: 1, L0657: 1, L0789: 1, L0665: 1, H0547: 1, H0519: 1, S0122: 1, H0658: 1, H0672: 1, H0539: 1, S0378: 1, H0521: 1, L0439: 1, L0752: 1, L0759: 1 and H0423: 1.	144-161, 182-198
885	HEMHA04	876674	895	529 -	2300	Pro-4 to Ser-9.	AR033: 9, AR052: 8,		81-97, 11-

886	HHEOX44	876676	896	151 - 2649	2301		846			27

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L0770: 5, L0789: 2, L0747: 2, L0755: 2, L0758: 2,
H0171: 1, H0650: 1, S0376: 1, H0580: 1, S0046: 1,
H0411: 1, H0549: 1, H0587: 1, H0486: 1, H0013: 1,
H0318: 1, H0581: 1, L0471: 1, T0006: 1, H0031: 1,
H0135: 1, H0040: 1, H0560: 1, H0561: 1, H0529: 1,
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AR096: 6, AR033: 5,
AR052: 5, AR060: 4,
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AR053: 3, AR055: 2
L0779: 6, L0794: 5,
L0439: 4, L0777: 4, L0758: 4, H0051: 2, H0040: 2,
L0803: 2, L0775: 2, L0659:

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894	HTEGT79	877252	904	62 - 1078	2309		
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898	HDPFP36	877396	908	388 - 804	2313		
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					Lys-24 to Arg-30, Glu-76 to Arg-82, Ala-246 to Glu-256, Thr-261 to Gly-266, Thr-284 to Glu-290, Gly-323 to Tyr-329, Phe-427 to Lys-433, Asn-435 to Trp-453.	AR033: 2, AR096: 2, AR089: 2, AR060: 2, AR061: 2, AR052: 1, AR055: 1, AR039: 0, AR053: 0, AR104: 0 H0556: 10, L0749: 7, L0758: 6, L0803: 5, L0748: 4, L0439: 4, L0751: 4,	H0266: 1, L0194: 1, L0055: 1, H0708: 1, S0366: 1, S0036: 1, H0264: 1, H0509: 1, S0344: 1, H0538: 1, S0002: 1, S0426: 1, L0763: 1, L0770: 1, L0637: 1, L5575: 1, L0642: 1, L0773: 1, L0648: 1, L0649: 1, L0533: 1, L0805: 1, L0530: 1, L0647: 1, L0790: 1, S0428: 1, S0053: 1, H0701: 1, H0723: 1, S0310: 1, H0547: 1, H0593: 1, H0684: 1, H0658: 1, H0670: 1, H0518: 1, H0521: 1, H0522: 1, H0696: 1, H0555: 1, H0627: 1, H0631: 1, S3012: 1, S0027: 1, L0741: 1, L0747: 1, L0750: 1, L0786: 1, L0777: 1, L0755: 1, H0665: 1, S0194: 1, H0423: 1 and H0506: 1.	

H0619: 3, L0646: 3, L0764: 3, L0809: 3, L0666: 3, L0777: 3, S0212: 2, S0358: 2, H0331: 2, H0620: 2, T0010: 2, H0038: 2, L0804: 2, L0659: 2, L0383: 2, L0747: 2, L0755: 2, L0757: 2, L0588: 2, L0718: 2, H0265: 1, H0341: 1, H0255: 1, H0661: 1, H0663: 1, S0420: 1, S0444: 1, S0360: 1, H0637: 1, H0580: 1, H0733: 1, H0351: 1, H0549: 1, H0600: 1, H0333: 1, H0632: 1, H0013: 1, H0618: 1, H0253: 1, H0318: 1, H0052: 1, H0571: 1, H0123: 1, H0012: 1, H0266: 1, H0615: 1, H0424: 1, H0628: 1, H0040: 1, H0264: 1, H0633: 1, S0438: 1, S0440: 1, L0770: 1, L0763: 1, L0773: 1, L0766: 1, L0771: 1, L0774: 1, L0653: 1, L0655: 1, L0519: 1, L0789: 1, L0663: 1, L0665: 1, H0144: 1, L0438: 1, H0684: 1, H0659: 1, H0658: 1, S0330: 1, H0539: 1, S0152: 1, S0406: 1, L0752: 1,

| 905 | HHAUW81 | 878215 | 915 | 167 - 1189 | 2320 | Arg-68 to Thr-75, Arg-91 to Val-104, Pro-203 to Pro-221, Leu-229 to Arg-252, Pro-282 to Gly-295. | AR033: 7, AR104: 6, AR053: 5, AR052: 5, AR039: 4, AR096: 4, AR055: 4, AR060: 3, AR089: 3, AR061: 3 L0769: 5, L0766: 5, L0439: 5, S0358: 4, L0794: 4, L0438: 4, L0777: 4, H0618: 3, H0494: 3, H0561: 3, L0809: 3, H0638: 2, S0418: 2, S0420: 2, H0370: 2, S0049: 2, H0052: 2, H0050: 2, H0012: 2, H0059: 2, S0440: 2, S0002: 2, L0761: 2, L0803: 2, L0805: 2, L0665: 2, H0547: 2, L0742: 2, L0744: 2, L0748: 2, L0779: 2, L0758: 2, L0759: 2, H0556: 1, H0656: 1, H0255: 1, H0458: 1, S0444: 1, H0208: 1, H0393: 1, H0351: 1, H0261: 1, S0220: 1, H0333: 1, H0632: 1, H0581: 1, H0309: 1, H0046: 1, H0150: 1, L0116: 1, H0620: 1, L0163: 1, H0083: 1, H0615: 1, T0023: L0731: 1, L0608: 1, H0136: 1, H0542: 1, H0543: 1 and H0423: 1. | 9q33-q34.1 | 103000, 114350, 120900, 131195, 146150, 185000, 189980, 223900, 253800, 253800, 268900, 600184, 602575, 602575 | 176-193, 142-158 |

| 906 | HAUBB12 | 878260 | 916 | 144 - 749 | 2321 | Thr-3 to Gln-9. | AR053: 747, AR052: 436, AR096: 408, AR033: 219, AR104: 168, AR039: 132, AR089: 99, AR060: 82, AR055: 55, AR061: 30 H0052: 4, S0360: 3, L0662: 2, L0659: 2, H0672: 2, H0295: 1, H0294: 1, S0418: 1, S0442: 1, S0007: 1, S0476: 1, H0559: 1, S0049: 1, H0009: 1, H0563: 1, H0570: 1, H0566: 1, S0440: 1, L0520: 1, L0631: 1, L5575: 1, L0627: 1, L0643: 1, L0648: 1, L0803: 1, L0651: 1, L0805: 1, | 1, H0424: 1, H0213: 1, H0617: 1, H0606: 1, H0673: 1, H0124: 1, H0135: 1, H0038: 1, L0351: 1, S0150: 1, S0344: 1, L0763: 1, L0796: 1, L0800: 1, L0768: 1, L0804: 1, L0774: 1, L0806: 1, L0629: 1, L0658: 1, L0545: 1, H0682: 1, H0658: 1, H0627: 1, L0741: 1, L0750: 1, L0752: 1, L0731: 1, L0757: 1, H0445: 1, L0589: 1, H0667: 1 and H0352: 1. | 43-59 |

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| 907 | HFPHS77 | 878291 | 917 | 358 - 771 | 2322 | Met-1 to Gln-6, Ile-32 to Cys-40, Trp-89 to Arg-97. | L5623: 1, L0791: 1, L0793: 1, L0664: 1, H0689: 1, H0435: 1, S0406: 1 and L0592: 1.
AR033: 10, AR055: 9, AR096: 7, AR089: 7, AR060: 7, AR104: 6, AR052: 5, AR053: 5, AR061: 5, AR039: 2 L0779: 4, H0671: 2, S0356: 2, S0222: 2, H0052: 2, L0754: 2, L0756: 2, T0002: 1, S0358: 1, H0574: 1, T0003: 1, S0051: 1, L0598: 1, L0794: 1, L0766: 1, L0803: 1, L0804: 1, L0775: 1, L0659: 1, L0789: 1, L0663: 1, H0144: 1, H0670: 1, H0651: 1, L0759: 1, L0362: 1 and S0026: 1. | 39-63, 6-28 |
| 908 | HBGQN46 | 878306 | 918 | 216 - 683 | 2323 | Ala-15 to Tyr-20. | AR096: 1, AR033: 1, AR089: 1, AR060: 1, AR052: 0, AR061: 0, AR039: 0, AR053: 0, AR104: 0, AR055: 0 H0617: 2, L0794: 2, L0766: 2, L0806: 2, L0777: 2, H0587: 1, L0767: 1, L0790: 1, L0792: L0375: 1, L0792: | 59-92 |

| 909 | HTAFG29 | 878308 | 919 | 1333 - 1707 | 2324 | Pro-100 to Lys-107. | 1, L0743: 1, L0779: 1 and L0780: 1. AR061: 2, AR039: 1, AR060: 1, AR089: 0, AR104: 0, AR055: 0 L0804: 5, L0794: 4, S0046: 3, L0769: 3, S0222: 2, H0604: 2, H0553: 2, L0654: 2, L0777: 2, L0780: 2, L0731: 2, L0599: 2, H0265: 1, H0556: 1, T0049: 1, S0444: 1, S0360: 1, L0717: 1, T0039: 1, H0013: 1, H0069: 1, H0635: 1, H0036: 1, H0085: 1, H0271: 1, H0188: 1, H0424: 1, H0628: 1, H0674: 1, H0551: 1, H0494: 1, L0373: 1, L0641: 1, L0764: 1, L0768: 1, L0523: 1, L0806: 1, L0790: 1, L0665: 1, S0374: 1, H0684: 1, H0555: 1, S0390: 1, L0748: 1, L0751: 1, L0747: 1, S0276: 1 and H0422: 1. | | | | 70-87, 37-53 |
| 910 | HDPCT51 | 878310 | 920 | 315 - 1847 | 2325 | Gly-83 to Ser-92, Tyr-100 to Phe-113, Asp-127 to Asp-138, Asp-194 to Gly-200, | AR039: 33, AR033: 18, AR104: 17, AR053: 15, AR096: 15, AR089: 14, AR055: 13, AR052: 11, | | | | 426-452, 226-251, 354-379, 315-334, |

					Gln-222 to Ser-227, Gln-476 to Gly-489, Gly-499 to Glu-505.	AR060: 10, AR061: 8 H0424: 7, H0521:7, H0581: 3, H0033: 3, L0438: 3, H0522: 3, H0549: 2, H0271: 2, H0135: 2, S0040: 1, H0295: 1, S0001: 1, S0046: 1, H0250: 1, S0280: 1, H0575: 1, H0457: 1, H0009: 1, H0123: 1, S0340: 1, H0039: 1, H0405: 1, H0040: 1, H0647: 1, S0002: 1, H0547: 1, H0684: 1, S0152: 1, L0439: 1 and H0543: 1.			3-21, 343-359, 285-301, 393-409
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| 912 | HOHCA01 | 878348 | 922 | 169 - 1824 | 2327 | Leu-2 to Leu-7, Leu-14 to Arg-46, Pro-73 to Arg-80, Ile-100 to Ile-105, Lys-113 to Val-126. | AR055: 2, AR060: 1, AR089: 1, AR061: 0, AR096: 0, AR033: 0, AR104: 0, AR053: 0, AR039: 0 H0124: 3, S0280: 2, S0212: 1, H0484: 1, S0356: 1, S0354: 1, H0370: 1, H0618: 1, H0046: 1, H0051: 1, S0250: 1, H0553: 1, H0087: 1, H0551: 1, H0560: 1, H0625: 1, H0561: 1, L0369: 1, H0519: 1, H0593: 1, L0740: 1, S0196: 1 and S0424: 1. | H0327: 1, H0530: 1, H0051: 1, H0266: 1, S0314: 1, S0022: 1, H0031: 1, H0553: 1, H0212: 1, H0038: 1, H0380: 1, H0264: 1, H0100: 1, H0509: 1, S0144: 1, L0763: 1, L0372: 1, L0374: 1, L0803: 1, L0775: 1, L0776: 1, S0216: 1, S0148: 1, H0670: 1, H0539: 1, H0518: 1, H0696: 1, S0146: 1, S0406: 1, S0028: 1, L0749: 1, L0779: 1, S0026: 1, S0192: 1 and S0242: 1. | | 45-74, 395-413, 174-190, 336-352, 275-291, 466-482 |

| 913 | HTPEF72 | 878349 | 923 | 1399 - 1815 | 2328 | Pro-4 to Pro-11, Pro-37 to Pro-50. | AR089: 17, AR053: 14, AR055: 14, AR052: 14, AR096: 12, AR104: 9, AR033: 8, AR060: 7, AR061: 6, AR039: 5 L0805: 11, L0777: 5, L0776: 4, L0438: 4, H0156: 2, H0318: 2, H0424: 2, S0464: 2, L0659: 2, S0434: 2, S0116: 1, H0661: 1, H0664: 1, S0442: 1, S0360: 1, H0733: 1, S0045: 1, S0046: 1, H0393: 1, H0587: 1, H0042: 1, H0618: 1, H0204: 1, H0565: 1, H0039: 1, H0165: 1, H0090: 1, H0038: 1, T0067: 1, H0647: 1, L0520: 1, L0646: 1, L0662: 1, L0651: 1, L0806: 1, L0658: 1, L5622: 1, L0787: 1, L0791: 1, L0792: 1, L0663: 1, L0664: 1, L0665: 1, H0658: 1, H0660: 1, S0380: 1, L0439: 1, L0747: 1, L0749: 1, L0753: 1, S0260: 1, S0436: 1 and L0584: 1. | | 74-91, 106-122 |
| 914 | HDQFU07 | 878365 | 924 | 257 - 1156 | 2329 | Lys-29 to Val-34, Cys-94 to Asp-99, Ser-102 to Val-107, | AR039: 25, AR096: 7, AR060: 5, AR033: 5, AR053: 4, AR052: 3, | | 1-27, 166-183, 256-272, 113- |

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915	HETBV52	878370	925	25 - 450	2330		16q24.1	256850	82-102
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AR052: 9, AR033: 8, AR053: 8, AR055: 7, AR060: 6, AR104: 5, AR089: 5, AR096: 5, AR061: 4, AR039: 4 L0509: 18, L0500: 9, L0499: 6, L0493: 6, L0514: 6, L0777: 6, S0358: 4, L0438: 4, H0657: 3, L0794: 3, L0776: 3, L0439: 3, L0747: 3, L0758: 3, H0542: 3, H0716: 2, S0418: 2, L0021: 2, H0551: 2, L0435: 2, S0440: 2, L0763: 2,

L0662: 2, L0805: 2, L0508: 2, L0512: 2, L0513: 2, H0547: 2, S0028: 2, L0731: 2, L0605: 2, H0624: 1, H0717: 1, S0114: 1, H0650: 1, H0662: 1, S0420: 1, S0442: 1, S0354: 1, S0360: 1, S0410: 1, H0339: 1, S0222: 1, H0592: 1, H0486: 1, T0040: 1, H0156: 1, S0049: 1, H0597: 1, H0545: 1, H0046: 1, S0051: 1, H0416: 1, S0336: 1, H0428: 1, H0135: 1, H0040: 1, H0087: 1, H0413: 1, T0042: 1, H0494: 1, S0472: 1, S0210: 1, L0369: 1, L0507: 1, L0770: 1, L0638: 1, L0646: 1, L0643: 1, L0764: 1, L0521: 1, L0767: 1, L0768: 1, L0766: 1, L0498: 1, L0497: 1, L0774: 1, L0657: 1, L0659: 1, L0783: 1, L0787: 1, L0793: 1, S0126: 1, H0670: 1, H0660: 1, S0330: 1, S0152: 1, S0406: 1, H0187: 1, L0748: 1, L0754: 1, L0750: 1, L0779: 1, L0780: 1, L0759: 1, H0445: 1, H0423: 1,

916	HPHAB61	878406	926	35 - 853	2331	Arg-140 to Arg-145.	H0422: 1 and S0424: 1. AR055: 10, AR033: 8, AR060: 7, AR089: 5, AR052: 4, AR061: 4, AR104: 4, AR096: 4, AR053: 3, AR039: 2 L0439: 5, L0740: 4, L0777: 4, L0755: 4, L0794: 2, L0803: 2, L0438: 2, L0602: 2, L0752: 2, L0599: 2, H0583: 1, S0360: 1, L0471: 1, H0510: 1, H0032: 1, H0488: 1, H0413: 1, L0662: 1, L0804: 1, L0775: 1, L0805: 1, L0655: 1, L0809: 1, L0519: 1, S0148: 1, H0547: 1, L0747: 1, L0686: 1 and H0665: 1.	153-173, 248-270, 190-209, 100-121, 61-78, 211-228, 1-17
917	HTJNI73	878407	927	59 - 1090	2332	Ile-37 to Ile-42, Asn-48 to Met-53, Cys-252 to Gly-258, Val-288 to Glu-293.	AR096: 1, AR033: 1, AR053: 1, AR089: 1, AR055: 0, AR060: 0, AR061: 0, AR039: 0, AR052: 0, AR104: 0 L0740: 19, L0748: 14, S0358: 6, L0754: 6, L0759: 5, S0354: 3, H0046: 3, S0344: 3, L0771: 3, L0666: 3, L0747: 3, H0393: 2, L0637: 2, L0775: 2, L0651: 1:	1-17, 323-341, 130-146

918	HFCAI19	878432	928	564 - 109	2333			
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919	HEOMO40	878455	929	151 - 981	2334			127-143, 167-183
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| 920 | HBGQR89 | 878462 | 930 | 95 - 592 | 2335 | Ser-21 to Gly-27. | 2, H0494: 2, L0648: 2, H0521: 2, L0751: 2, L0755: 2, H0265: 1, H0556: 1, H0717: 1, H0657: 1, H0306: 1, H0402: 1, S0408: 1, H0580: 1, H0619: 1, H0549: 1, H0559: 1, H0097: 1, H0390: 1, S0474: 1, H0545: 1, H0355: 1, H0428: 1, H0039: 1, H0033: 1, H0213: 1, H0124: 1, S0366: 1, H0163: 1, H0509: 1, L0763: 1, L0770: 1, L0772: 1, L0774: 1, L0775: 1, L0776: 1, L0438: 1, H0684: 1, S0328: 1, H0539: 1, H0522: 1, L0747: 1, L0731: 1, L0757: 1, H0668: 1 and H0543: 1. | AR104: 1, AR061: 1, AR089: 1, AR060: 0, AR055: 0, AR039: 0, AR033: 0, AR053: 0, AR052: 0, AR096: 0 H0098: 1, H0617: 1, L0598: 1, L0367: 1 and S0260: 1. | 105-144, 27-50, 84-114, 46-62, 146-162 |
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| 922 | HDPFT14 | 878510 | 932 | 84 - 554 | 2337 | Gly-11 to Glu-16, Cys-52 to His-59, Val-67 to Gln-72. | AR039: 3, AR096: 3, AR052: 3, AR053: 3, AR104: 2, AR060: 2, AR089: 2, AR055: 2, AR033: 2, AR061: 1 H0521: 4, L0803: 3, L0439: 3, S0046: 2, H0488: 2, L0747: 2, L0758: 2, L0759: 2, H0556: 1, H0685: 1, H0657: 1, S0418: 1, S0360: 1, H0632: 1, H0486: 1, L0021: 1, H0618: 1, S0474: 1, H0421: 1, H0457: 1, H0014: 1, H0266: 1, H0622: 1, T0041: 1, H0561: 1, L0770: 1, L0761: 1, L0667: 1, L0372: 1, L0800: 1, L0662: 1, L0794: 1, L0804: 1, L0805: 1, L0789: 1, L0666: 1, H0520: 1, H0659: 1, H0672: 1, H0539: 1, L0740: 1, L0750: 1, L0779: 1, L0777: 1, L0752: 1, L0599: 1, L0603: 1, S0026: 1, H0543: 1 and H0422: 1. | 107-135, 73-94 |
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924	HWLLR80	878628	934	52 – 1098	2339	Glu-27 to Gly-33, Pro-87 to Gly-94, Gly-110 to Leu-115, Asn-129 to Asp-134, Asn-148 to Glu-153, Ala-209 to Asp-215, Ser-241 to Ser-251.	AR052: 0 S0001: 7, S0028: 6, S0278: 2, H0575: 2, S0050: 2, H0271: 2, S0053: 2, S0031: 2, S0260: 2, L0593: 2, H0381: 1, H0419: 1, S0180: 1, S0282: 1, S0045: 1, L0476: 1, H0416: 1, H0313: 1, H0068: 1, S0036: 1, S0052: 1, S0428: 1, S0216: 1, S0146: 1, S0390: 1, L0592: 1 and L0603: 1.	283-306, 36-52
925	HLYAG35	878700	935	71 – 787	2340	Ala-24 to Asp-31.	AR096: 4, AR089: 3, AR055: 2, AR053: 2, AR060: 2, AR039: 2, AR033: 2, AR052: 2, AR061: 1, AR104: 1 S0358: 1, H0370: 1, H0253: 1, H0547: 1, H0521: 1, L0601: 1 and S0196: 1. AR039: 15, AR096: 8, AR060: 7, AR053: 6, AR089: 6, AR033: 6, AR052: 4, AR055: 3, AR104: 3, AR061: 2 H0046: 1 and H0445: 1.	92-121, 188-206
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L0740: 3, L0754: 3, H0657:
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L0005: 2, S0376: 2, H0083:
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L0761: 2, L0657: 2, L0659:
2, L0783: 2, L0519: 2,
L0663: 2, L0664: 2, L0438:
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H0423: 2, H0422: 2, S6024:
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L0481: 1, S0356: 1, H0611:
1, S0010: 1, H0581: 1,
H0251: 1, H0046: 1, H0050:
1, S0048: 1, H0266: 1,
H0188: 1, L0483: 1, H0591:
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H0616: 1, L0564: 1, H0022:
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S0422: 1, L0640: 1, L0771:
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927	HTFNS65	878748	937	190 - 750	2342			133-158
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928	HDABG90	878755	938	43 - 1284	2343	Tyr-4 to Gln-9, Asp-49 to Lys-54.	L0748: 1, L0751: 1, L0779: 1, L0752: 1, L0592: 1 and S0424: 1. AR096: 2, AR033: 1, AR053: 1, AR089: 1, AR052: 1, AR039: 1, AR061: 1, AR060: 1, AR055: 1, AR104: 0 H0616: 2, H0497: 1 and H0618: 1.	226-264, 106-132, 139-171, 313-343, 178-201, 286-302, 217-234
929	HDPQO40	878790	939	106 - 726	2344	Pro-28 to Arg-35, Ser-51 to Pro-56, Pro-201 to Ser-207.	AR053: 3, AR052: 2, AR089: 2, AR096: 2, AR055: 2, AR033: 2, AR060: 2, AR061: 1, AR104: 1, AR039: 0 H0486: 3, L0766: 3, L0777: 3, S0002: 2, S0426: 2, L0743: 2, L0779: 2, L0759: 2, S0474: 1, H0673: 1, H0674: 1, H0477: 1, L0805: 1, L0659: 1, L0790: 1, H0522: 1, H0478: 1, H0445: 1 and H0543: 1.	157-173, 88-104, 13-29
930	HKAHL37	878823	940	12 - 698	2345	Gln-12 to Phe-25, Ala-82 to His-93, His-212 to Ala-217.	AR033: 5, AR061: 4, AR089: 3, AR052: 3, AR053: 2, AR055: 2, AR096: 2, AR060: 2, AR104: 1, AR039: 0 L0758: 12, H0617: 9,	21-46, 185-205, 50-74, 125-142, 106-122

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931	HBXAX11	878833	941	79 - 1239	2346	Met-1 to Tyr-11, Ser-190 to Thr-195, Pro-223 to Ser-229.				125-143, 145-161, 70-86

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| 932 | HMVBC71 | 878904 | 942 | 175 - 744 | 2347 | Pro-45 to Thr-52, Pro-57 to Gly-69, Pro-76 to Asn-86, Glu-92 to Gly-98, Asn-114 to Thr-121, Arg-147 to Arg-155, Pro-170 to Thr-181. | AR033: 6, AR104: 4, AR096: 4, AR089: 3, AR053: 2, AR060: 2, AR055: 2, AR052: 2, AR039: 2, AR061: 1 S0330: 3, S0046: 2, H0494: 2, L0065: 2, L0666: 2, H0670: 2, L0439: 2, H0624: 1, H0686: 1, H0295: 1, S0212: 1, S0442: 1, H0735: 1, H0549: 1, H0392: 1, H0559: 1, H0052: 1, H0597: 1, H0327: 1, H0009: 1, H0024: 1, S0050: 1, S0051: 1, H0428: 1, S0150: 1, H0641: 1, L0637: 1, L0662: 1, L0794: 1, L0649: 1, L0803: 1, L0774: 1, L0775: 1, L0651: 1, L0659: 1, L0526: 1, L0663: 1, L0665: 1, H0593: 1, H0690: 1, S0328: 1, H0696: 1, H0555: 1, S0037: 1, S0028: 1, L0756: 1, L0759: 1, S0434: 1 and S0276: 1. | | | 122-145, 2-34 |
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934	HEEAG84	878975	181 - 645	2349	Lys-13 to Thr-19.	AR096: 12, AR060: 10, AR055: 8, AR053: 8, AR104: 7, AR089: 7, AR052: 6, AR033: 5, AR039: 5, AR061: 4, H0549: 1 and H0538: 1.			33-51
935	HE8PT01	878979	1519 - 1929	2350	Met-113 to Arg-118.	AR039: 29, AR033: 19, AR104: 18, AR055: 18, AR053: 16, AR089: 13, AR052: 13, AR096: 13, AR060: 12, AR061: 12, L0747: 4, L0777: 4, S0222: 2, L0471: 2, L0455: 2, L0803: 2, L0790: 2, L0742: 2, L0748: 2, L0439: 2, L0753: 2, L0759: 2, L0717: 1, H0013: 1, H0575: 1, S0010: 1, H0350: 1, T0006: 1, L0770: 1, L0764: 1, L0794: 1, L0784: 1, L0806: 1, L0805: 1, S0052: 1, H0144: 1, L0438: 1, H0689: 1, L0749: 1, L0758: 1, H0445: 1 and L0599: 1.			91-109, 121-137
936	HMVCG79	879020	38 - 853	2351	Thr-28 to Arg-34, Leu-47 to Ser-53.	AR089: 6, AR060: 5, AR033: 4, AR104: 4, AR096: 3, AR039: 3, AR052: 3, AR053: 3,	6q14-q15	136550, 203310, 269920, 602772	141-165, 233-255, 3-25, 56-72, 166-

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937	HSLJF33	879040	947	18 - 521	2352	Glu-65 to Gly-71.	AR096: 2, AR039: 2, AR053: 1, AR052: 1, AR061: 1, AR089: 1, AR055: 0, AR033: 0, AR060: 0, AR104: 0 S0390: 1	97-126, 14-39, 43-63, 125-141
938	HFKJI43	879115	948	60 - 377	2353		AR033: 33, AR104: 32, AR055: 22, AR039: 20, AR053: 16, AR089: 16, AR096: 13, AR060: 13, AR052: 12, AR061: 8 L0747: 17, S0442: 15, L0665: 13, S0358: 11, S0444: 11, S0408: 10, S0374: 10, H0597: 7, H0620: 6, L0375: 6, L0518: 5, H0539: 5, L0750: 5, H0135: 4, L0764: 4, L0776: 4, H0144: 4, L0751: 4, H0352: 4, H0170: 3, S0376:	52-82

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H0622: 1, L0483: 1, H0124:

940	HTXLR12	879160	950	714 - 2069	2355	Tyr-48 to Asn-54.	1, H0135: 1, H0163: 1, H0040: 1, H0264: 1, H0412: 1, L0564: 1, H0130: 1, H0641: 1, S0144: 1, S0002: 1, L0763: 1, L0761: 1, L0372: 1, L0643: 1, L0764: 1, L0771: 1, L0648: 1, L0767: 1, L0803: 1, L0804: 1, L0375: 1, L0378: 1, L0659: 1, L0544: 1, L0665: 1, H0670: 1, S0328: 1, S0330: 1, H0134: 1, H0436: 1, S0027: 1, L0747: 1, L0756: 1, L0777: 1, L0753: 1, S0260: 1, H0445: 1, L0597: 1, H0653: 1 and S0194: 1.	AR052: 4, AR055: 4, AR039: 3, AR060: 3, AR096: 3, AR033: 3, AR053: 2, AR089: 2, AR061: 2, AR104: 2 H0038: 2, H0265: 1, H0556: 1, S0134: 1, H0645: 1, S0222: 1, L0455: 1, S0328: 1, S0028: 1, L0591: 1 and S0194: 1.		425-451, 415-431
941	HDQEX68	879167	951	10 - 1470	2356	Asp-4 to Glu-9, Ala-44 to Glu-62,	AR052: 9, AR033: 5,	AR053: 5, AR096: 3,	4	371-388, 295-311,

88-104		
Leu-113 to Gln-120, Asp-131 to Glu-137, Lys-187 to Glu-194, Glu-315 to Arg-321, Gln-433 to Ser-439, Lys-446 to Pro-451, Lys-463 to Ser-470.	AR089: 3, AR060: 2, AR104: 2, AR061: 2, AR039: 2, AR055: 1 S0192: 11, L0731: 10, L0754: 8, L0439: 5, S0022: 4, H0551: 4, L0747: 4, H0046: 3, S0003: 3, H0031: 3, H0616: 3, L0771: 3, L0766: 3, L0666: 3, H0521: 3, L0759: 3, S0212: 2, H0575: 2, H0251: 2, H0596: 2, H0050: 2, L0471: 2, H0024: 2, H0328: 2, H0111: 2, L0803: 2, L0804: 2, L0659: 2, S0374: 2, L0438: 2, S0126: 2, S0028: 2, L0740: 2, S0040: 1, T0049: 1, H0650: 1, S0358: 1, H0580: 1, S0046: 1, H0640: 1, S0300: 1, H0574: 1, H0632: 1, H0270: 1, H0013: 1, H0156: 1, H0545: 1, H0051: 1, H0355: 1, H0510: 1, S0214: 1, H0615: 1, H0644: 1, L0055: 1, H0163: 1, H0090: 1, H0038: 1, H0059: 1, H0494: 1, H0509: 1, H0633: 1, S0344: 1, S0210: 1, S0002: 1, L0369: 1, L0646: 1, L0521: 1,	

| 942 | HTPHG81 | 879182 | 952 | 198 - 1127 | 2357 | Pro-9 to Glu-16, Ser-25 to Asp-31, Glu-55 to Glu-61, Met-87 to Gly-104, Cys-151 to Trp-157, Arg-222 to Gln-231, Val-275 to Pro-284. | AR039: 19, AR053: 13, AR096: 9, AR052: 9, AR055: 9, AR033: 9, AR089: 8, AR104: 7, AR060: 7, AR061: 6, H0553: 2, S0282: 1, S0049: 1, H0052: 1, H0622: 1, H0040: 1 and S0406: 1. L0662: 1, L0794: 1, L0774: 1, L0806: 1, L0805: 1, L0809: 1, L0367: 1, L0792: 1, L0663: 1, L0664: 1, H0144: 1, H0519: 1, H0670: 1, H0696: 1, S0406: 1, S0027: 1, L0751: 1, L0749: 1, L0750: 1, L0757: 1, L0480: 1, L0608: 1, S0011: 1, S0026: 1, S0242: 1, S0196: 1 and S0424: 1. | 239-255, 114-130, 203-219 |
| 943 | HETFJ66 | 879189 | 953 | 82 - 1503 | 2358 | Pro-12 to Val-29, Glu-35 to Arg-40, Arg-46 to Ile-52, Tyr-88 to Ser-97, Gly-112 to Cys-117. | AR055: 5, AR052: 4, AR053: 3, AR061: 3, AR060: 3, AR033: 2, AR089: 2, AR096: 1, AR104: 0, AR039: 0, L0794: 24, H0046: 20, L0747: 5, L0748: 4, L0749: 4, H0013: 3, H0624: 2, H0553: 2, H0090: 2, L0761: 2, L0800: 2, L0767: 2, | 195-211, 115-131 |

944	HUVCM58	879222	954	116 - 1750	2359			
					Arg-34 to Glu-41, Met-74 to Thr-80, Glu-124 to Lys-133, Pro-166 to Val-177, Arg-234 to Val-244, Ile-251 to Arg-259, Leu-261 to Leu-269, Gln-271 to Arg-284, Lys-399 to Pro-407, Ile-449 to Ser-458, Lys-464 to Gln-474.	L0805: 2, L0791: 2, L0666: 2, L0438: 2, L0754: 2, L0755: 2, H0171: 1, H0265: 1, H0657: 1, H0656: 1, H0663: 1, H0580: 1, H0645: 1, S6014: 1, H0050: 1, H0428: 1, T0006: 1, L0456: 1, H0591: 1, H0040: 1, H0087: 1, H0100: 1, T0042: 1, L5566: 1, L0764: 1, L0776: 1, L0792: 1, L4501: 1, H0144: 1, H05547: 1, S0406: 1, L0439: 1, L0740: 1, L0750: 1, L0756: 1, L0779: 1, L0777: 1, L0752: 1, L0759: 1 and L0600: 1.	AR089: 9, AR096: 8, AR033: 8, AR052: 7, AR053: 7, AR060: 5, AR061: 3, AR055: 3, AR104: 0 L0752: 8, L0766: 6, S0444: 5, L0770: 5, L0439: 5, L0731: 5, S0360: 3, H0031: 3, L0803: 3, S0126: 3, L0755: 3, L0758: 3, S0358: 2, H0722: 2, H0090: 2, H0056: 2, L0805: 2, L0659: 2, L0666: 2, L0665: 2, H0519: 2, S0330: 2,	297-331, 138-166, 4-35, 404-431, 41-73, 360-385, 99-123, 494-516, 188-210, 339-355

H0521: 2, L0747: 2, H0170: 1, H0716: 1, H0740: 1, S0114: 1, S0212: 1, S0442: 1, S0354: 1, H0580: 1, H0329: 1, H0431: 1, H0497: 1, H0331: 1, H0574: 1, H0632: 1, H0486: 1, H0427: 1, L0021: 1, H0036: 1, H0274: 1, S0010: 1, H0318: 1, H0581: 1, H0374: 1, H0052: 1, H0596: 1, H0597: 1, H0545: 1, H0373: 1, S0388: 1, H0107: 1, S0003: 1, S0214: 1, H0428: 1, H0622: 1, H0553: 1, H0163: 1, H0087: 1, T0067: 1, H0494: 1, H0560: 1, S0438: 1, S0440: 1, S0426: 1, UNKWN: 1, L0598: 1, L0763: 1, L0769: 1, L0638: 1, L0761: 1, L0641: 1, L0776: 1, L0379: 1, L0657: 1, L0809: 1, L0519: 1, L0791: 1, L0663: 1, H0684: 1, H0672: 1, S0378: 1, H0522: 1, S0404: 1, S0406: 1, S0028: 1, L0750: 1, L0756: 1, L0753: 1, S0031: 1, H0445: 1, H0595: 1, S0436: 1, L0581: 1, L0608:

945	HDPGJ03	879294	955	475 - 32	2360	Asp-25 to Gln-32, Asn-40 to Lys-46, Trp-54 to Asn-62.	1, S0011: 1, S0026: 1, S0192: 1, S0196: 1, H0423: 1 and S0424: 1. AR104: 2, AR096: 2, AR052: 1, AR039: 1, AR055: 1, AR033: 1, AR060: 1, AR061: 1, AR089: 0, AR053: 0 S0278: 5, S0144: 5, S0002: 4, H0521: 4, S0003: 3, S0344: 3, H0575: 1, H0364: 1, S0214: 1, H0068: 1, H0591: 1, L0806: 1, L0805: 1 and L0776: 1.		60-87
946	HUSIT07	879441	956	111 - 902	2361	Arg-24 to Arg-29, Arg-144 to Asn-151.	AR053: 10, AR033: 10, AR052: 9, AR089: 9, AR055: 8, AR060: 5, AR061: 4, AR039: 3, AR096: 2, AR104: 0 H0435: 3, S0476: 2, H0590: 2, L0758: 2, H0656: 1, H0484: 1, H0729: 1, S0046: 1, H0393: 1, H0632: 1, H0013: 1, S0474: 1, S0049: 1, H0074: 1, L0455: 1, H0598: 1, H0412: 1, L0648: 1, L0649: 1, L0527: 1, L0657: 1, L0659: 1, L0530: 1, H0539: 1, H0521:		1-22, 172-195, 214-241, 89-122, 82-98, 150-166

947	HWHHN55	879514	957	114 - 1013	Gly-14 to Lys-22.	1 and S0032: 1. AR039: 9, AR104: 8, AR033: 8, AR053: 8, AR052: 7, AR089: 6, AR055: 5, AR060: 5, AR061: 4 S0348: 1, S0418: 1, H0592: 1 and H0586: 1.	215-231
948	HTTJH57	879541	958	15 - 839	Pro-8 to Ser-14, Leu-16 to Gly-25, Gly-33 to Gly-38, Glu-43 to Glu-51.	AR052: 5, AR055: 5, AR060: 3, AR039: 3, AR061: 3, AR089: 2, AR033: 2, AR096: 2, AR053: 1, AR104: 1 H0052: 1, H0286: 1, H0634: 1 and L0771: 1.	238-255
949	HMSND53	879589	959	22 - 1947	Lys-37 to Lys-47, Thr-87 to Lys-93, Gly-100 to Val-105, Gln-111 to Thr-128, Pro-155 to Asp-173, Gln-177 to Gln-184, Glu-202 to Leu-216, Asn-272 to Asp-277, Asp-289 to His-297, Gly-395 to Phe-402, His-435 to Ala-440, Asp-489 to Glu-498, Arg-581 to Gln-586, Thr-611 to Arg-616,	AR060: 2, AR096: 2, AR089: 2, AR033: 2, AR053: 2, AR061: 1, AR052: 1, AR055: 1, AR104: 1 L0439: 9, L0471: 3, H0591: 2, H0547: 2, H0624: 1, H0170: 1, S0430: 1, H0656: 1, S0110: 1, S0420: 1, S0376: 1, T0114: 1, H0427: 1, H0071: 1, H0275: 1, T0010: 1, S6028: 1, H0266: 1, H0428: 1, H0031: 1, H0090: 1, H0038: 1,	254-270, 357-373, 595-611, 541-557

950	HMSNQ62	879610	960	149 – 1783	2365	Glu-624 to Cys-636.	H0040: 1, H0551: 1, S0014: 1, H0646: 1, S0426: 1, H0529: 1, L0766: 1, H0520: 1, S0126: 1, H0689: 1, H0518: 1, L0754: 1, L0485: 1 and H0423: 1.	109-125, 523-539
							AR055: 5, AR060: 4, AR096: 4, AR039: 3, AR053: 3, AR052: 3, AR033: 3, AR061: 3, AR089: 3, AR104: 2 H0457: 4, L0754: 4, L0803: 3, L0439: 3, H0575: 2, H0617: 2, L0662: 2, L0804: 2, L0805: 2, L0750: 2, L0731: 2, H0656: 1, H0484: 1, H0255: 1, H0663: 1, L0717: 1, H0549: 1, S0222: 1, H0602: 1, H0486: 1, H0013: 1, H0581: 1, H0251: 1, H0046: 1, H0150: 1, H0428: 1, H0553: 1, H0040: 1, H0063: 1, H0264: 1, H0623: 1, S0002: 1, S0426: 1, L0762: 1, L0763: 1, L0769: 1, L0766: 1, L0774: 1, L0787: 1, L0666: 1, L0663: 1, L0665: 1, L0565: 1, H0689: 1, H0658: 1, H0670: 1, S0136: 1,	

						cDNA clones	Cyto band	Map	AA ranges
951	HGBHG78	879611	961	175 - 582	2366	Arg-63 to Thr-73, Pro-85 to Ser-92.	H0521: 1, L0748: 1, L0747: 1, L0752: 1 and H0423: 1. AR055: 15, AR053: 11, AR052: 10, AR089: 8, AR033: 8, AR060: 8, AR096: 7, AR061: 6, AR104: 6, AR039: 4 H0014: 1 and L0752: 1.	22q13.31	250100, 250800, 250800	40-57, 22-38
952	HTLHJ08	879620	962	59 - 967	2367	His-204 to Pro-209.	AR039: 44, AR055: 30, AR053: 22, AR033: 21, AR089: 19, AR060: 19, AR052: 18, AR096: 17, AR104: 16, AR061: 14 H0107: 2, L0758: 2, H0618: 1, H0154: 1, H0553: 1, H0038: 1 and H0616: 1.			70-98, 101-125, 169-190, 138-154
953	HSIDI48	879670	963	60 - 923	2368	His-102 to Gln-108, Asp-251 to Tyr-263, Gly-274 to Lys-288.	AR089: 17, AR052: 12, AR096: 9, AR039: 9, AR060: 8, AR104: 7, AR053: 6, AR033: 5, AR061: 5, AR055: 3 L0439: 17, L0777: 7, L0766: 6, L0740: 6, L0758: 7, L0483: 4, L0592: 4, H0178: 3, L0794: 3, S0358: 2, H0036: 2, H0039: 2, H0622: 2, H0644: 2, L0804: 2, L0775: 2, L0805: 2, L0438: 2, L0352: 2, H0670:			171-199, 78-97, 230-249, 33-50, 113-129, 215-231, 155-171, 15-31

954	HRDDU37	879672	964	15 - 611	2369			141-162
					Leu-21 to Lys-29, Gly-39 to Pro-51, Arg-68 to Lys-73, Val-91 to Pro-97, Glu-113 to Arg-120, Val-122 to Gly-131.	2, L0754: 2, L0785: 1, S0212: 1, H0664: 1, L0005: 1, S0356: 1, S0354: 1, H0329: 1, S0007: 1, S0046: 1, H0632: 1, H0486: 1, H0590: 1, S0010: 1, H0581: 1, S0049: 1, H0052: 1, L0471: 1, H0328: 1, T0023: 1, H0553: 1, H0181: 1, H0673: 1, H0674: 1, H0090: 1, H0059: 1, L0598: 1, L0769: 1, L0638: 1, L0761: 1, L0771: 1, L0803: 1, L0776: 1, L0659: 1, L0518: 1, L0783: 1, L0666: 1, L0665: 1, S0374: 1, H0520: 1, H0658: 1, S0328: 1, S0330: 1, S0152: 1, H0696: 1, S0404: 1, H0631: 1, S0028: 1, L0743: 1, L0750: 1, L0731: 1, H0444: 1, L0366: 1, S0026: 1, S0424: 1 and H0506: 1.	AR033: 4, AR055: 3, AR061: 2, AR060: 2, AR096: 2, AR089: 2, AR052: 2, AR039: 1, AR053: 1, AR104: 0 L0439: 11, L0750: 5, L0766: 4, L0803: 4, H0519:	

955	HFLU119	879691	965	1084 - 2682	2370		

4, L0752: 4, S0438: 3, H0521: 3, L0747: 3, H0265: 2, H0638: 2, H0046: 2, L0805: 2, L0791: 2, L0438: 2, L0743: 2, L0748: 2, L0780: 2, L0731: 2, H0716: 1, L0002: 1, H0341: 1, S0212: 1, H0305: 1, H0589: 1, S0444: 1, T0039: 1, H0427: 1, T0110: 1, H0545: 1, H0375: 1, H0124: 1, H0090: 1, H0616: 1, H0202: 1, T0041: 1, H0647: 1, S0344: 1, S0422: 1, H0529: 1, L0371: 1, L0764: 1, L0804: 1, L0659: 1, L0783: 1, L0809: 1, L0663: 1, S0126: 1, H0648: 1, H0672: 1, S0152: 1, S0028: 1, L0749: 1, L0779: 1, L0755: 1, L0758: 1, L0759: 1, S0434: 1, H0506: 1 and H0008: 1.

Glu-26 to Lys-33, His-45 to Asn-50, Asp-149 to Tyr-154, Asn-175 to Asp-181, Gly-268 to Gln-275, Leu-375 to Asp-383, Thr-441 to Gly-456,

AR089: 1, AR033: 1, AR061: 1, AR060: 1, AR096: 0, AR052: 0, AR039: 0, AR055: 0 S0028: 8, S0282: 2, S0045: 2, 2, S0031: 2, S0260: 2, S0001: 1, H0255: 1, S0132:

404-420, 286-302, 195-211

956	HTWAG66	879698	966	354 - 803	2371	Thr-499 to Arg-504.	1, S0278: 1, H0318: 1, H0199: 1, S0050: 1, S0051: 1, H0181: 1, S0036: 1, H0264: 1, S0144: 1, S0044: 1 and S0027: 1.	76-98
							AR055: 11, AR060: 9, AR061: 9, AR033: 7, AR052: 6, AR053: 6, AR096: 6, AR089: 5, AR104: 5, AR039: 4 H0306: 1, H0637: 1, H0187: 1 and S0106: 1.	
957	HLCLE14	879732	967	14 - 424	2372	His-34 to Tyr-39, Pro-113 to Glu-119.	AR033: 7, AR055: 7, AR060: 5, AR096: 5, AR052: 5, AR104: 4, AR089: 4, AR053: 4, AR061: 4, AR039: 2 L0751: 16, H0617: 14, L0766: 13, L0731: 9, L0743: 8, H0253: 7, H0052: 7, L0769: 6, H0521: 6, L0742: 6, L0759: 6, H0587: 5, H0618: 5, L0763: 5, L0764: 5, L0744: 5, L0758: 5, H0039: 3, S0210: 3, L0800: 3, L0662: 3, L0794: 3, L0659: 3, L0666: 3, L0747: 3, L0753: 3, L0757: 3, H0483: 2, H0494: 2,	119-137

L0770: 2, L0768: 2, L0803: 2, L0806: 2, S0053: 2, H0593: 2, H0660: 2, S0152: 2, L0741: 2, L0750: 2, L0786: 2, L0603: 2, H0667: 2, H0506: 2, H0170: 1, H0583: 1, H0650: 1, H0255: 1, H0306: 1, S0420: 1, S0442: 1, S0222: 1, H0592: 1, H0586: 1, H0575: 1, H0590: 1, H0581: 1, H0546: 1, H0150: 1, H0123: 1, H0050: 1, H0012: 1, H0620: 1, H0024: 1, H0179: 1, H0252: 1, H0628: 1, H0124: 1, H0135: 1, H0087: 1, H0551: 1, H0116: 1, H0264: 1, H0623: 1, H0059: 1, H0561: 1, H0130: 1, L0631: 1, L0639: 1, L3904: 1, L0761: 1, L0772: 1, L0643: 1, L0644: 1, L0773: 1, L0363: 1, L0774: 1, L0375: 1, L0654: 1, L0776: 1, L0527: 1, L0658: 1, L0636: 1, L0783: 1, L0809: 1, L0789: 1, L0793: 1, L0664: 1, L0665: 1, H0519: 1, S0126: 1, H0435: 1, H0658: 1, H0539: 1, S0378: 1,

| 958 | HOFMH52 | 879744 | 968 | 307 - 777 | 2373 | Arg-106 to Pro-115, Asn-134 to Lys-139, Pro-144 to Asp-151. | AR039: 12, AR104: 6, AR096: 5, AR033: 5, AR053: 5, AR052: 4, AR089: 4, AR060: 4, AR055: 3, AR061: 2 L0748: 7, L0766: 5, H0040: 3, L0747: 3, L0777: 3, L0755: 3, H0657: 2, H0486: 2, H0596: 2, S0372: 2, L0803: 2, S0126: 2, L0740: 2, L0754: 2, L0749: 2, L0758: 2, S0026: 2, H0170: 1, H0265: 1, H0125: 1, S0358: 1, S0410: 1, S0007: 1, L0717: 1, H0431: 1, H0415: 1, H0333: 1, H0642: 1, T0060: 1, H0156: 1, H0599: 1, H0530: 1, H0081: 1, H0050: 1, L0471: 1, H0239: 1, H0510: 1, H0266: 1, H0179: 1, H0068: 1, H0163: 1, H0087: 1, | S0350: 1, S0188: 1, H0555: 1, H0436: 1, S0390: 1, S3014: 1, S0027: 1, L0780: 1, L0592: 1, L0361: 1, H0668: 1, H0653: 1, S0192: 1, H0542: 1, H0423: 1, S0424: 1, S0456: 1 and H0352: 1. | 46-64, 27-43 |

959	HWAHE17	879774	969	229 - 633	2374	Pro-80 to Lys-86, Thr-92 to Gln-106.	S0438: 1, L0598: 1, L0500: 1, L0761: 1, L0764: 1, L0805: 1, L0655: 1, L0789: 1, L0663: 1, L0665: 1, H0648: 1, H0215: 1, S0406: 1, L0756: 1, L0759: 1 and H0542: 1.		14-45, 53-70, 35-51
960	HWAEG32	879900	970	27 - 530	2375	Leu-70 to Glu-75, Arg-131 to Ser-138.	AR096: 3, AR055: 1, AR033: 1, AR060: 1, AR104: 1, AR061: 1, AR089: 0, AR052: 0 S0354: 1, H0581: 1, L0770: 1, L0752: 1 and L0759: 1.		1-32, 48-66, 78-94
961	HSLHB42	879927	971	479 - 886	2376		AR039: 150, AR096: 20, AR053: 19, AR055: 11, AR089: 8, AR052: 4, AR033: 3, AR060: 2, AR061: 2, AR104: 1 S6026: 1, S0222: 1, H0191: 1, H0581: 1, H0544: 1 and H0598: 1.	AR039: 5, AR033: 1, AR089: 1, AR096: 1, AR060: 1, AR055: 1, AR061: 1, AR053: 1, AR104: 1, AR052: 0 L0439: 9, L0777: 4, S0212: 3, L0794: 3, L0766:	41-57, 17-33, 77-93

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| 962 | HDSAC28 | 879957 | 972 | 72 - 425 | 2377 | Pro-27 to Leu-34, Ser-41 to His-54, Ala-81 to Ser-90. | 3, S0028: 3, L0754: 3, S0222: 2, H0591: 2, L0374: 2, L0803: 2, L0809: 2, H0521: 2, L0752: 2, L0731: 2, H0171: 1, H0713: 1, H0638: 1, S0444: 1, S0410: 1, L0021: 1, H0706: 1, H0545: 1, H0562: 1, H0051: 1, H0188: 1, H0553: 1, L0142: 1, H0090: 1, H0551: 1, L0351: 1, H0561: 1, L0763: 1, L0769: 1, L0761: 1, L0771: 1, L0662: 1, L0768: 1, L0804: 1, L0774: 1, L0806: 1, H0144: 1, S0122: 1, H0659: 1, H0522: 1, S0044: 1, H0626: 1, L0744: 1, L0747: 1, L0756: 1, L0755: 1, S0260: 1, S0436: 1, S0242: 1 and H0542: 1. AR096: 8, AR089: 7, AR055: 7, AR060: 6, AR039: 6, AR033: 5, AR052: 5, AR053: 4, AR104: 4, AR061: 4 H0052: 2, H0255: 1, H0662: 1, H0329: 1, L0789: 1, H0690: 1 and L0747: 1. | 99-115, 64-80 |

963	HFIHT27	879972	973	47 - 1873	2378	Pro-23 to Ser-30, Lys-64 to Gly-69, Arg-110 to Glu-117, Asp-218 to Lys-223, Lys-243 to Gly-249, Ala-448 to Glu-453, Asp-479 to Gln-485, Asn-504 to Ser-510, Pro-547 to Gln-557.	AR052: 3, AR096: 3, AR039: 2, AR061: 2, AR055: 2, AR053: 1, AR089: 1, AR033: 1, AR060: 1, AR104: 1 S0358: 1, H0580: 1, T0039: 1, H0519: 1, S0194: 1 and H0543: 1.	399-415, 335-351, 6-22, 45-61
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965	HCDAH28	880010	975	781 - 1227	2380		AR061: 11, AR055: 7, AR096: 6, AR060: 5, AR052: 5, AR033: 4, AR089: 3, AR053: 3, AR104: 2, AR039: 2 H0251: 8, H0624: 4, H0171: 1, H0286: 1, L0752: 4.	79-103, 113-136, 8-24

966	HSDFD90	880039	976	866 - 1399	2381	Gln-9 to Gly-15.	AR104: 82, AR033: 43, AR055: 7, AR096: 5, AR089: 4, AR052: 4, AR060: 4, AR039: 4, AR053: 4, AR061: 3 S0126: 2, H0171: 1, S0134: 1, S0053: 1 and S0031: 1. 1, L0598: 1, L0774: 1, S0428: 1, H0144: 1 and S0126: 1.	143-171, 48-68, 15-33, 73-89
967	HTLJK34	880137	977	177 - 782	2382	Thr-125 to Gly-141, Pro-151 to Leu-156, Cys-160 to Lys-169, Lys-175 to Lys-187.	AR055: 10, AR060: 6, AR061: 5, AR033: 5, AR089: 4, AR096: 4, AR053: 4, AR052: 3, AR104: 3, AR039: 2 L0758: 5, H0618: 1, H0616: 1 and L0794: 1.	30-57, 12-28, 105-121
968	HNGKC65	880142	978	1207 - 1671	2383	Ala-97 to His-105.	AR033: 1, AR039: 1, AR089: 1, AR060: 1, AR096: 1, AR053: 1, AR061: 0, AR052: 0, AR055: 0, AR104: 0 H0687: 2, S0428: 1, H0682: 1 and S0032: 1.	21-52, 53-77, 123-144, 105-121, 14-30
969	HHENP77	880178	979	770 - 2893	2384	Glu-124 to Leu-131, Asp-266 to Pro-271, Asn-273 to Phe-280, Glu-315 to Arg-321,	AR039: 11, AR033: 7, AR096: 6, AR053: 5, AR052: 5, AR104: 4, AR089: 4, AR060: 4,	625-652, 3-19, 210-226, 150-166, 494-

970	HDPBD83	880199	980	1139 - 1720	2385			510
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L0750: 3, H0294: 2, H0619:
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H0657: 1, H0341: 1, S0356:
1, H0208: 1, S0045: 1,
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1, L0622: 1, L0623: 1,
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1, H0253: 1, T0048: 1,
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1, H0616: 1, H0477: 1,
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1, H0100: 1, H0494: 1,
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1, H0529: 1, L0369: 1,

971	HHEVU86	880221	981	157 - 480	2386	Pro-46 to Ser-55, Gly-90 to His-96.	L0640: 1, L0770: 1, L0637: 1, L0372: 1, L0643: 1, L0374: 1, L0375: 1, L0776: 1, L0659: 1, L0636: 1, L0518: 1, L0382: 1, L0519: 1, L0647: 1, L0663: 1, H0144: 1, H0723: 1, H0520: 1, H0690: 1, H0435: 1, H0660: 1, H0672: 1, S0328: 1, H0539: 1, S0152: 1, S0406: 1, L0612: 1, S0037: 1, L0741: 1, L0744: 1, L0439: 1, L0740: 1, L0751: 1, L0757: 1, S0031: 1, H0707: 1, L0485: 1 and H0543: 1. AR096: 11, AR089: 9, AR039: 8, AR104: 5, AR053: 5, AR052: 5, AR060: 4, AR033: 4, AR055: 1, AR061: 1 H0635: 1, H0052: 1, L0648: 1, L0601: 1 and H0543: 1.	53-75, 28-44
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973	HAPSG46	880278	983	6 - 434	2388	H0052: 8, H0620: 3, H0494: 2, L0741: 2, S0046: 1, H0645: 1, H0587: 1, H0485: 1, H0156: 1, L0032: 1, H0569: 1, H0012: 1, H0014: 1, T0010: 1, H0375: 1, H0416: 1, H0622: 1, H0553: 1, S0036: 1, H0702: 1, L0438: 1, H0547: 1, H0435: 1, H0660: 1, H0555: 1, L0611: 1 and H0506: 1. AR061: 2, AR039: 1, AR060: 1, AR089: 1, AR033: 1, AR096: 0, AR053: 0, AR055: 0, AR104: 0, AR052: 0 S0001: 2, H0575: 1, S0388: 1 and S0260: 1.		15-39, 90-114, 70-89, 38-60
974	HTEDK31	880341	984	179 - 529	2389	AR055: 7, AR053: 4, AR060: 4, AR052: 4, AR039: 3, AR033: 3, AR061: 3, AR096: 2, AR089: 2, AR104: 1 H0038: 2, L0770: 2, H0597: 1, H0616: 1, L0560: 1 and L0526: 1.		19-42, 1-18, 77-93, 53-69
975	HCWFW07	880358	985	111 - 662	2390	Pro-22 to Thr-29, Gln-120 to Arg-128, Asn-151 to Phe-167. AR096: 6, AR104: 4, AR033: 3, AR055: 3, AR060: 3, AR089: 3.		42-68, 97-116

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981	HBGOU17	880444	991	41 - 505	2396	Gln-67 to Ala-73, Ala-85 to Asp-90, Arg-102 to Thr-112.	AR055: 8, AR061: 5, AR060: 4, AR033: 4, AR089: 4, AR052: 4, AR053: 4, AR096: 2, AR104: 2, AR039: 0 L0748: 9, H0617: 4, S0222: 2, L0769: 2, L0756: 2, L0758: 2, H0341: 1, S0001: 1, S0358: 1, H0619: 1, T0040: 1, S0346: 1, H0052: 1, H0081: 1, H0266: 1, L0143: 1, S0142: 1, S0344: 1, L0774: 1, L0784: 1, H0144: 1, H0651: 1, S0027: 1, L0777: 1 and		118-142

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983	HMALN60	880542	993	3 - 512	2398	Arg-6 to Gln-13, Thr-44 to Ser-50, Pro-145 to Asn-168.	1, L0663: 1, S0374: 1, H0520: 1, S0126: 1, S0190: 1, S0176: 1, H0436: 1, L0757: 1, L0758: 1, H0542: 1, H0543: 1, L0697: 1, L0600: 1 and H0352: 1. AR060: 5, AR096: 3, AR055: 3, AR061: 2, AR104: 1, AR033: 0, AR089: 0, AR053: 0, AR052: 0 S0045: 1, S0278: 1, H0617: 1 and S0044: 1.	93-110
984	HETBT53	880575	994	66 - 1574	2399	Ser-30 to Leu-36, His-55 to Asn-61, Gln-71 to Gln-96, Pro-129 to Lys-136, Lys-146 to Ser-157, Gly-215 to Ala-220, Ala-250 to Ser-256, Phe-316 to Arg-323, Pro-421 to Ala-427, Leu-435 to Asp-440, Ser-453 to Asp-460.	AR060: 6, AR055: 3, AR089: 1, AR039: 1, AR104: 1, AR033: 1, AR061: 1, AR053: 0, AR096: 0, AR052: 0 H0046: 3, L0601: 3, H0013: 2, H0050: 2, H0620: 2, L0774: 2, S0222: 1, L0471: 1, H0012: 1, L0455: 1, S0150: 1, L0770: 1, L0775: 1, L0655: 1, H0144: 1, H0521: 1, H0134: 1, L0752: 1, S0260: 1 and S0042: 1.	166-182, 401-417
985	HRAEC49	880595	995	148 - 1251	2400	Phe-30 to Arg-36, Ser-68 to Trp-75.	AR096: 8, AR089: 7, AR060: 7, AR104: 6,	71-101, 339-363,

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	998					
	880670					
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| 989 | HTTJY18 | 880697 | 999 | 310 - 1263 | 2404 | Met-1 to Lys-8, Lys-23 to Ala-31. | H0600: 1, H0632: 1, H0318: 1, H0563: 1, H0428: 1, H0039: 1, H0553: 1, H0090: 1, H0038: 1, H0040: 1, H0623: 1, S0440: 1, S0150: 1, H0641: 1, S0002: 1, L0769: 1, L0764: 1, L0662: 1, L0775: 1, L0776: 1, H0547: 1, S0126: 1, S0152: 1, L0740: 1, L0754: 1, L0749: 1, L0777: 1, L0752: 1, H0423: 1 and H0422: 1. | AR096: 3, AR052: 1, AR055: 1, AR039: 1, AR104: 1, AR089: 1, AR053: 1, AR061: 1, AR060: 0, AR033: 0 L0766: 43, L0754: 12, L0740: 11, S0358: 9, H0575: 7, L0803: 7, L0747: 6, L0731: 6, L0761: 5, L0662: 5, L0805: 5, L0744: 5, L0748: 5, L0779: 5, L0794: 4, H0710: 4, L0749: 4, L0750: 4, L0752: 4, L0757: 4, L0471: 3, H0264: 3, S0210: 3, L0806: 3, S0126: 3, S0328: 3, L0743: 3, L0777: 3, L0759: 3, H0423: 3, S0376: 2, H0013: | 282-308, 110-126 |

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L0649: 2, L0774: 2, L0655:
2, L0607: 2, L0791: 2,
H0144: 2, S0374: 2, L0438:
2, H0696: 2, S0406: 2,
H0436: 2, L0745: 2, L0746:
2, L0756: 2, L0753: 2,
L0755: 2, L0362: 2, S0026:
2, H0170: 1, H0341: 1,
S0001: 1, H0664: 1, H0638:
1, S0442: 1, S0046: 1,
S6022: 1, H0611: 1, H0370:
1, H0642: 1, L0021: 1,
H0599: 1, H0003: 1, L0022:
1, H0036: 1, H0004: 1,
H0274: 1, S0010: 1, L0105:
1, H0421: 1, H0052: 1,
H0251: 1, H0046: 1, H0572:
1, H0050: 1, H0242: 1,
H0012: 1, S0050: 1, H0014:
1, H0083: 1, H0375: 1,
S0250: 1, S0003: 1, T0023:
1, L0483: 1, T0006: 1,
H0031: 1, L0142: 1, L0055:
1, H0032: 1, H0674: 1,
L0455: 1, S0036: 1, H0090:

990	HPSND10	880733	1000	63 - 1469	2405			
						1, H0040: 1, H0634: 1, H0616: 1, T0067: 1, H0488: 1, H0433: 1, H0056: 1, H0560: 1, H0529: 1, L0369: 1, L0762: 1, L0770: 1, L0638: 1, L0373: 1, L0372: 1, L0764: 1, L0773: 1, L0804: 1, L0776: 1, L0659: 1, L0518: 1, L0384: 1, L0789: 1, L0666: 1, L0663: 1, L0664: 1, S0148: 1, H0547: 1, H0659: 1, H0670: 1, H0539: 1, S0378: 1, H0518: 1, H0521: 1, H0555: 1, S0028: 1, L0758: 1, H0445: 1, S0434: 1, L0588: 1, S0192: 1, H0543: 1, S0458: 1 and S0384: 1.	Ser-30 to Leu-35, Pro-44 to Glu-63, Arg-138 to Ala-143, Phe-170 to Asp-177, Arg-248 to Phe-253, Ser-270 to Ala-277, Asp-322 to Gly-335, Leu-363 to Ser-369, Tyr-381 to Glu-388, Arg-455 to Arg-460.	230-246, 89-107, 199-215, 122-138, 149-165
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991	HDABX58	880753	1001	924 - 1490	2506	Met-1 to Thr-7, Trp-12 to Trp-17.	L0382: 1, L0791: 1, L0793: 1, L0352: 1, S0432: 1, L0741: 1 and L0779: 1. AR052: 8, AR039: 7, AR033: 7, AR089: 7, AR053: 6, AR096: 6, AR104: 5, AR055: 5, AR060: 4, AR061: 4 L0803: 9, L0740: 9, L0769: 6, L0794: 5, L0805: 5, L0439: 5, L0518: 4, H0059: 3, L0809: 3, L0757: 3, H0550: 2, S0222: 2, H0497: 2, H0618: 2, H0620: 2, S0051: 2, L0638: 2, L0747: 2, L0750: 2, L0596: 2, L0605: 2, H0265: 1, H0583: 1, H0381: 1, S0282: 1, H0254: 1, H0255: 1, S0418: 1, S0360: 1, S0007: 1, H0486: 1, H0156: 1, H0052: 1, H0263: 1, H0545: 1, H0457: 1, H0150: 1, H0050: 1, T0010: 1, H0083: 1, H0286: 1, H0428: 1, H0418: 1, H0673: 1, S0036: 1, H0551: 1, H0264: 1, H0494: 1, H0130: 1, L0770: 1, L0761: 1, L0646: 1, L0800: 1, L0662: 1, L0768:	9q34.1	103000, 114350, 120900, 131195, 185000, 189980, 600184, 602575, 602575	37-57, 138-154, 82-98

992	HE9PB45	880774	1002	880 - 1194	2407	Lys-95 to Tyr-100.	1, L0774: 1, L0775: 1, L0776: 1, L0807: 1, L0659: 1, L0787: 1, L0789: 1, L0666: 1, L0663: 1, L0664: 1, H0520: 1, H0682: 1, H0521: 1, H0478: 1, L0751: 1, L0755: 1, L0731: 1, L0759: 1, L0592: 1, L0608: 1, L0366: 1 and S0192: 1.				37-56, 5-21
993	HELGM94	880807	1003	73 -	2408	Lys-91 to Ala-106,	AR061: 6, AR055: 5, AR033: 5, AR052: 4, AR096: 4, AR060: 3, AR089: 3, AR053: 3, AR104: 1 L0770: 6, L0766: 5, L0777: 5, L0759: 4, H0052: 2, L0769: 2, L0750: 2, L0592: 2, L0608: 2, S0040: 1, H0663: 1, H0497: 1, H0575: 1, L0157: 1, H0591: 1, H0264: 1, L0764: 1, L0662: 1, L0774: 1, H0144: 1, L0438: 1, S0126: 1, H0683: 1, H0521: 1, L0751: 1, L0754: 1, L0749: 1, L0752: 1, L0753: 1, L0758: 1, S0434: 1, H0543: 1 and H0422: 1.	AR096: 13, AR089: 10,	16p11.2	147781,	139-155,

994	HJBBC09	880809	1004	102 - 1577	2409			
				1437		Tyr-125 to Gly-132, Asn-157 to Glu-166, Glu-228 to Glu-233, Ser-315 to Asp-323, Leu-332 to Leu-337, Ser-363 to Lys-371, Thr-446 to Ile-452.	AR052: 8, AR060: 8, AR053: 7, AR033: 6, AR055: 6, AR039: 5, AR104: 5, AR061: 4 H0584: 5, H0599: 5, H0556: 4, H0124: 4, H0341: 3, H0559: 3, H0622: 3, H0125: 2, S0045: 2, H0620: 2, H0024: 2, T0042: 2, L0665: 2, H0265: 1, S6024: 1, H0583: 1, H0208: 1, S0046: 1, H0393: 1, S0278: 1, H0549: 1, H0550: 1, H0438: 1, H0586: 1, H0486: 1, H0250: 1, S0280: 1, H0706: 1, H0253: 1, H0009: 1, H0687: 1, H0284: 1, H0424: 1, H0031: 1, S0366: 1, H0116: 1, H0056: 1, S0038: 1, H0494: 1, H0132: 1, H0131: 1, H0130: 1, L0662: 1, L0803: 1, S0428: 1, S0216: 1, H0144: 1, S0126: 1, H0670: 1, H0518: 1, S0152: 1, S0118: 1, S3014: 1, L0759: 1 and S0011: 1.	172471, 182381	25-41, 377-393, 166-182
						Met-1 to Arg-14, Pro-20 to Ser-32, Arg-40 to Thr-49,	AR039: 5, AR055: 4, AR033: 4, AR096: 4, AR053: 3, AR052: 3,		75-94, 420-437, 317-335,

						Pro-107 to Thr-115, Ala-146 to Lys-151, Arg-243 to Tyr-254, Lys-309 to Trp-318.	AR104: 3, AR060: 3, AR061: 2, AR089: 2, H0556: 3, H0341: 2, H0144: 2, L0743: 2, H0543: 2, H0295: 1, H0661: 1, S0046: 1, H0587: 1, H0333: 1, H0486: 1, H0013: 1, H0618: 1, H0009: 1, H0024: 1, T0010: 1, H0553: 1, T0042: 1, S0150: 1, S0142: 1, S0422: 1, L0787: 1, H0519: 1, S0152: 1, H0134: 1, L0779: 1, S0434: 1, S0276: 1 and H0422: 1.	288-304, 151-167, 118-134, 188-204, 449-465
995	HTXJF02	880913	1005	122 - 646	2410	Ala-15 to Gln-20, Tyr-89 to Glu-103, Lys-156 to Gly-163.	AR033: 77, AR052: 62, AR053: 55, AR104: 36, AR089: 23, AR055: 22, AR096: 21, AR060: 12, AR039: 9, AR061: 9, H0556: 1, H0295: 1, S0418: 1, S0354: 1, H0586: 1, H0587: 1 and H0494: 1.	134-155, 26-45, 59-77, 112-129
996	HKAEN78	880927	1006	66 - 479	2411	Tyr-46 to Gly-52.	AR104: 7, AR033: 6, AR053: 6, AR052: 6, AR039: 5, AR060: 3, AR055: 3, AR096: 3, AR089: 3, AR061: 1, S0356: 2, S0002: 2, L0772: 2, L0748: 2, L0758: 2,	99-115, 16-32

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| 997 | HKADD76 | 880936 | 1007 | 93 - 1070 | 2412 | Arg-49 to Tyr-62, Tyr-88 to Ala-97, Gly-230 to Lys-239, Gln-270 to Cys-276, Glu-296 to Gly-304. | AR096: 2, AR052: 1, AR061: 1, AR089: 1, AR060: 0, AR053: 0, AR033: 0, AR039: 0, AR104: 0 H0264: 4, H0488: 4, S0328: 3, S0306: 2, S0476: 1, H0272: 1, H0487: 1, H0494: 1, H0633: 1, L5623: 1 and S0330: 1. L0581: 2, H0265: 1, H0556: 1, H0341: 1, S0212: 1, S0444: 1, S0360: 1, H0249: 1, H0331: 1, H0744: 1, H0290: 1, H0100: 1, T0042: 1, H0494: 1, L0369: 1, L0763: 1, L0646: 1, L0645: 1, L0764: 1, L0771: 1, L0662: 1, L0381: 1, H0576: 1, L0777: 1, L0755: 1 and L0595: 1. | 2 | | | 239-268, 145-171, 100-118, 194-210, 5-21, 65-81, 132-148, 308-324 |
| 998 | HKIYF62 | 880972 | 1008 | 140 - 517 | 2413 | Val-7 to Lys-12, Tyr-58 to Leu-64, Arg-91 to Ser-104, Pro-117 to Val-126. | AR039: 28, AR096: 21, AR104: 18, AR060: 16, AR061: 16, AR089: 15, AR053: 15, AR055: 14, AR033: 13, AR052: 10 L0748: 17, H0521: 13, L0655: 4, H0522: 4, L0754: 4, H0575: 3, L0439: 3, | 11q13 | 102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700, | 70-90, 12-28 |

999	HBXAT65	881010	1009	145 - 918	2414			
					Asp-18 to Gly-24, Asp-63 to Met-70, Ser-82 to Pro-89, Glu-117 to Ser-125, Glu-151 to Asp-171.	AR104: 17, AR033: 17, AR060: 15, AR061: 9, AR053: 7, AR089: 4, AR052: 4, AR039: 3, AR096: 2 L0438: 7, L0769: 4,		
						L0605: 3, H0619: 2, S0010: 2, H0050: 2, S0051: 2, H0644: 2, S0344: 2, L0646: 2, L0775: 2, L0776: 2, L0666: 2, L0758: 2, L0366: 2, S0282: 1, H0255: 1, H0661: 1, S0358: 1, H0406: 1, H0550: 1, S0222: 1, H0441: 1, H0592: 1, H0632: 1, S0280: 1, H0590: 1, H0309: 1, H0327: 1, H0150: 1, H0123: 1, H0024: 1, H0014: 1, T0010: 1, H0355: 1, H0510: 1, H0375: 1, H0328: 1, T0006: 1, H0031: 1, L0143: 1, H0087: 1, S0112: 1, L0435: 1, S0142: 1, L0770: 1, L0773: 1, L0767: 1, L0794: 1, L0803: 1, L0805: 1, L0606: 1, L0659: 1, L0809: 1, L0791: 1, H0658: 1, S0328: 1, S0380: 1, L0749: 1, L0756: 1, L0777: 1 and S0436: 1.	161015, 164009, 168461, 168461, 168461, 180721, 180840, 191181, 193235, 209901, 232600, 259700, 259770, 600045, 600319, 600528, 601884	225-252, 181-202

1000	HDQDF85	881146	1010	227 - 1615	2415			16	410-426, 186-202
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1002	HEOQC11	881219	1012	78 - 2348	2417			
						Lys-14 to Thr-23, His-28 to Arg-35, Pro-42 to Asn-47, Thr-132 to Phe-140, Gln-187 to Glu-196, Gly-216 to Ser-235, Thr-269 to Phe-275, Ile-294 to Lys-303, Ser-313 to Lys-318, Leu-358 to Phe-363, Gly-405 to Asp-416, Ser-441 to Glu-450, Gln-516 to Pro-529, Val-558 to Thr-570, Leu-573 to Arg-578, Gln-583 to Gln-589, Asp-614 to Asn-623, Asp-629 to Phe-642,	AR096: 4, AR089: 3, AR039: 3, AR104: 3, AR053: 3, AR052: 2, AR033: 2, AR061: 2, AR060: 2, AR055: 1 H0457: 8, H0556: 6, L0751: 6, H0618: 4, H0318: 4, H0038: 3, L0766: 3, S0442: 2, S0354: 2, H0553: 2, H0616: 2, H0100: 2, L0764: 2, L0662: 2, L0659: 2, L0783: 2, L0528: 2, S0152: 2, L0756: 2, L0731: 2, L0587: 2, H0667: 2, H0543: 2, H0295: 1, H0294: 1, S0134: 1, H0657: 1, S0418: 1, L0617: 1, S0376: 1, S0444: 1, S0360: 1, L0021: 1, H0575: 1, H0590: 1, H0052: 1, T0110: 1, H0011: 1, H0266: 1, H0165: 1, H0412: 1, H0413: 1, H0494: 1, L0800: 1, L0764: 1, L0771: 1, L0662: 1, L0774: 1, L0805: 1, L0776: 1, L0519: 1, L0666: 1, L0664: 1, L0665: 1, H0519: 1, H0555: 1, S0027: 1, L0748: 1, L0750: 1, S0436: 1, L0601: 1 and H0506: 1. **22**	318-335, 451-467, 152-168, 243-259

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						Lys-651 to Val-679, Lys-700 to Ser-706, Pro-714 to Ala-738, Asp-747 to Gly-753.	H0619: 1, H0369: 1, H0370: 1, T0039: 1, H0427: 1, H0581: 1, H0597: 1, H0123: 1, H0024: 1, H0200: 1, H0051: 1, H0510: 1, H0266: 1, H0271: 1, H0290: 1, H0428: 1, H0424: 1, H0030: 1, H0644: 1, H0181: 1, H0617: 1, H0032: 1, H0165: 1, H0316: 1, H0135: 1, H0040: 1, H0634: 1, H0087: 1, H0264: 1, L0770: 1, L0627: 1, L0372: 1, L0646: 1, L0768: 1, L0775: 1, L0658: 1, L0809: 1, L0665: 1, H0701: 1, H0699: 1, S0126: 1, H0684: 1, H0539: 1, S0037: 1, S0027: 1, L0748: 1, L0749: 1, L0752: 1, L0759: 1, L0596: 1, L0599: 1, L0593: 1, S0192: 1 and H0422: 1.	44-60, 134-150
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H0556: 4, L0754: 4, L0747: 4, H0638: 3, S0222: 3, H0581: 3, H0052: 3, H0529: 3, L0648: 3, L0662: 3, L0794: 3, L0766: 3, L0789: 3, L0665: 3, L0439: 3, L0740: 3, L0751: 3, L0756: 3, L0752: 3, L0731: 3, H0543: 3, H0305: 2, S0418: 2, H0619: 2, H0586: 2, H0599: 2, L0455: 2, H0203: 2, H0494: 2, H0641: 2, L0769: 2, L0649: 2, L0775: 2, L0378: 2, L0655: 2, L0807: 2, H0547: 2, H0519: 2, H0521: 2, H0436: 2, L0755: 2, L0596: 2, H0423: 2, H0506: 2, H0624: 1, H0265: 1, S0342: 1, H0583: 1, H0657: 1, S0001: 1, H0663: 1, H0402: 1, H0589: 1, H0449: 1, S0420: 1, S0408: 1, S0046: 1, S0476: 1, H0437: 1, H0549: 1, H0431: 1, H0370: 1, H0612: 1, H0592: 1, H0497: 1, H0331: 1, H0486: 1, H0250: 1, H0590: 1, T0048: 1, H0318: 1, H0230: 1, H0597: 1, H0150: 1, H0009: 1,

1004	HFPAD41	881359	1014	74 - 436	2419		83-104, 18-34, 55-72
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1005	HPJCS44	881430	1015	29 - 454	2420	His-35 to Ala-40, His-44 to Leu-56, Pro-64 to Pro-71, Arg-95 to Asn-110, Ser-114 to Pro-132.	AR055: 13, AR033: 12, AR060: 10, AR089: 9, AR061: 8, AR096: 7, AR052: 5, AR053: 5, AR104: 4, AR039: 3 H0318: 3, H0046: 3, L0742: 3, L0747: 3, S0046: 2, H0455: 2, L0748: 2, S0342: 1, H0662: 1, S0358: 1, S0444: 1, S0278: 1, H0370: 1, T0040: 1, S0280: 1, H0565: 1, L0471: 1, H0014: 1, S0388: 1, H0266: 1, H0288: 1, H0124: 1, H0708: 1, H0040: 1, H0625: 1, H0641: 1, H0647: 1, L0518: 1, S0374: 1, H0539: 1, S0152: 1, H0522: 1, H0696: 1, S0390: 1, L0750: 1, L0752: 1, L0731: 1, L0592: 1 and H0423: 1.	72-93
1006	HTAIV82	881434	1016	267 - 581	2421		AR033: 2, AR089: 1, AR060: 1, AR061: 0, AR039: 0 H0265: 1, H0556: 1, H0574: 1, H0635: 1 and H0423: 1.	55-71, 79-95
1007	HACBW10	881438	1017	1112 - 1414	2422	His-22 to Thr-28, His-89 to Cys-96.	AR039: 38, AR052: 26, AR053: 25, AR104: 21,	66-87

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AR060: 14, AR061: 11
L0439: 13, L0438: 11,
L0769: 10, L0766: 7,
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3, L0748: 3, L0779: 3,
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2, L0351: 2, L0770: 2,
L0761: 2, L0783: 2, L0789:
2, L0790: 2, L0664: 2,
L0747: 2, L0758: 2, L0759:
2, H0445: 2, L0592: 2,
H0624: 1, H0556: 1, H0686:
1, T0049: 1, H0657: 1,
H0483: 1, H0663: 1, H0638:
1, S0420: 1, S0376: 1,
S0007: 1, H0619: 1, H0393:
1, L0717: 1, H0441: 1,
H0643: 1, S0280: 1, H0253:
1, H0318: 1, S0388: 1,
T0010: 1, H0271: 1, H0428:
1, H0424: 1, H0606: 1,
L0456: 1, H0056: 1, H0494:
1, S0352: 1, H0538: 1,
H0529: 1, L0763: 1, L0772:
1, L0378: 1, L0657: 1,
L0658: 1, L0659: 1, H0144:
1, H0693: 1, H0520: 1,
H0690: 1, H0658: 1, H0539:

| 1008 | HUFBN79 | 881443 | 1018 | 20 - 610 | 2423 | Phe-5 to Ala-19, Ser-29 to Asp-41, Leu-49 to Val-57, Glu-68 to Arg-77, Pro-163 to Glu-171. | 1, H0521: 1, H0436: 1, S0037: 1, S0206: 1, L0740: 1, L0754: 1, L0593: 1, S0011: 1, H0665: 1, S0242: 1, H0423: 1 and H0422: 1. | AR053: 3, AR039: 3, AR052: 2, AR089: 2, AR096: 2, AR055: 2, AR061: 1, AR033: 1, AR060: 0, AR104: 0 L0748: 9, S0007: 6, L0754: 5, S0134: 3, H0457: 3, L0771: 3, L0666: 3, L0749: 3, H0657: 2, S0420: 2, S0358: 2, S0360: 2, S0222: 2, L0761: 2, L0764: 2, L0766: 2, L0607: 2, L0809: 2, H0648: 2, L0742: 2, L0759: 2, H0506: 2, H0686: 1, H0583: 1, S0116: 1, H0450: 1, S0045: 1, H0640: 1, H0351: 1, H0600: 1, H0574: 1, L0021: 1, H0575: 1, H0274: 1, H0581: 1, T0003: 1, H0014: 1, H0099: 1, H0179: 1, T0023: 1, H0673: 1, H0264: 1, H0102: 1, H0494: 1, H0561: 1, H0538: 1, L0598: 1, L0637: 1, L0667: 1, L0772: 1. | 169-191, 99-115 |

1009	HCFCN07	881450	1019	66 - 575	2424		
							54-78, 17-40
					Ser-48 to Trp-54, Pro-77 to Phe-84, Leu-89 to Leu-103, Met-110 to Asp-132, Glu-165 to Glu-170.	1, L0373: 1, L0646: 1, L0800: 1, L0662: 1, L0364: 1, L0649: 1, L0650: 1, L0653: 1, L0655: 1, L0542: 1, L0526: 1, L0789: 1, L0663: 1, L0664: 1, L0665: 1, L0565: 1, H0520: 1, S0126: 1, H0659: 1, H0658: 1, H0660: 1, H0651: 1, H0521: 1, H0696: 1, L0744: 1, L0439: 1, L0751: 1, L0745: 1, L0746: 1, L0747: 1, L0756: 1, L0779: 1, L0777: 1, L0755: 1, L0731: 1, L0588: 1, L0581: 1, L0361: 1, S0242: 1, H0542: 1, UNKWN: 1, L0600: 1 and H0352: 1.	AR089: 12, AR033: 9, AR052: 8, AR053: 7, AR039: 7, AR055: 6, AR096: 5, AR060: 5, AR061: 2, AR104: 2 L0747: 8, L0752: 7, S0358: 6, L0758: 6, H0521: 5, L0740: 5, L0757: 5, L0771: 4, L0749: 4, L0731: 4, L0362: 4, S0360: 3, H0486: 3, H0551: 3, L0766: 3, L0775: 3, S0376: 2,

H0457: 2, H0050: 2, H0266: 2, S0214: 2, S0036: 2, H0647: 2, L0769: 2, L0764: 2, L0776: 2, L0659: 2, H0593: 2, L0744: 2, L0748: 2, L0756: 2, L0777: 2, L0755: 2, S0260: 2, L0590: 2, L0599: 2, H0422: 2, S0398: 2, H0170: 1, H0265: 1, S0040: 1, T0049: 1, H0650: 1, H0663: 1, S0354: 1, H0580: 1, S0007: 1, S0045: 1, H0586: 1, H0587: 1, L0622: 1, H0013: 1, H0156: 1, H0042: 1, H0318: 1, H0546: 1, H0373: 1, S0388: 1, H0040: 1, H0264: 1, S0150: 1, S0344: 1, L0763: 1, L0770: 1, L0772: 1, L0646: 1, L0648: 1, L0774: 1, L0662: 1, L0768: 1, L0805: 1, L0806: 1, L0809: 1, L0653: 1, L0655: 1, L0809: 1, L0789: 1, H0144: 1, S0374: 1, H0547: 1, H0519: 1, S0126: 1, S0122: 1, H0690: 1, H0658: 1, H0522: 1, S0027: 1, L0779: 1, L0759: 1, L0595: 1, S0026: 1, S0276: 1, H0542: 1,

| 1010 | HLWDZ66 | 881490 | 1020 | 219 - 683 | 2425 | Pro-8 to Ser-18, Thr-59 to Gly-66, Asn-107 to Gln-112, Ser-136 to Glu-152. | AR096: 4, AR033: 4, AR089: 3, AR053: 3, AR052: 3, AR060: 3, AR039: 2, AR104: 1, AR055: 1, AR061: 1 L0759: 7, L0803: 6, L0666: 4, L0805: 3, L0756: 3, L0362: 3, L0646: 2, L0794: 2, L0766: 2, L0659: 2, H0144: 2, L0438: 2, H0520: 2, L0779: 2, L0596: 2, H0423: 2, L0600: 2, H0170: 1, S0114: 1, H0650: 1, S0358: 1, S0360: 1, H0329: 1, S0222: 1, H0497: 1, T0040: 1, H0036: 1, H0051: 1, H0687: 1, S0214: 1, H0615: 1, H0428: 1, H0622: 1, H0553: 1, H0598: 1, H0040: 1, H0634: 1, L0060: 1, T0041: 1, L0773: 1, L0774: 1, L0657: 1, L0809: 1, L0789: 1, L0664: 1, H0519: 1, S0126: 1, H0689: 1, H0435: 1, H0670: 1, H0555: 1, L0748: 1, L0439: 1, L0731: 1, S0031: 1 and S0434: 1. | S0424: 1, H0677: 1 and H0506: 1. | 65-81 |

1011	HEONP58	881498	1021	80 - 568	2426	Trp-114 to Ala-120, Thr-147 to Asp-153.	AR039: 3, AR033: 3, AR089: 2, AR061: 2, AR096: 2, AR052: 2, AR055: 2, AR060: 1, AR104: 1, AR053: 1 L0809: 3, L0769: 2, L0764: 2, L0773: 2, L0766: 2, L0774: 2, L0659: 2, L0438: 2, S0328: 2, L0731: 2, L0603: 2, H0583: 1, H0549: 1, H0438: 1, H0586: 1, H0486: 1, H0052: 1, H0457: 1, H0553: 1, H0561: 1, L0640: 1, L0770: 1, L0638: 1, L0761: 1, L0800: 1, L0644: 1, L0771: 1, L0662: 1, L0767: 1, L0768: 1, L0775: 1, L0655: 1, L0559: 1, L0518: 1, L0783: 1, L0789: 1, L0790: 1, L0664: 1, S0380: 1, S0406: 1, L0777: 1 and L0757: 1.	91-114, 3-23, 59-75
1012	HMAGN19	881531	1022	694 - 1074	2427	Pro-12 to Ala-23, Thr-90 to Thr-95.	AR096: 4, AR052: 3, AR039: 2, AR053: 2, AR089: 1, AR104: 1, AR060: 1, AR033: 1, AR061: 1, AR055: 0 S0045: 6, S0028: 5, S0278: 2, S0031: 2, S0282: 1, S0046: 1, S6026: 1, H0550:	95-121, 32-48

1013	HFCAP42	881569	1023	640 - 1227	2428		1q31	

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AR033: 2, AR104: 1, AR053: 1, AR052: 1, AR089: 1, AR060: 1, AR061: 0, AR039: 0, AR055: 0, AR096: 0 H0545: 7, H0617: 7, S0360: 4, H0658: 4, H0494: 3, H0295: 2, S0212: 2, H0661: 2, S0358: 2, H0606: 2, S0440: 2, L0769: 2, L0794: 2, L0783: 2, L0749: 2, L0601: 2, H0713: 1, H0717: 1, H0716: 1, H0294: 1, S0418: 1, S0356: 1, H0733: 1, S0045: 1, S0132: 1, S0278: 1, H0586: 1, L0622: 1, H0599: 1, H0581: 1, S0049: 1, H0052: 1, H0309: 1, H0544: 1, H0150: 1, H0009: 1, H0564: 1, H0620: 1, S0388: 1, H0375: 1, H0615: 1, H0031: 1, S0036: 1, H0059: 1, S0450: 1, H0633: 1, S0426: 1, L0371: 1, L0770: 1, L0645: 1, L0768: 1, L0804: 1,

134580, 145001, 145260, 150292, 208250, 226450, 600105, 600759, 600995, 601652

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| 1014 | HWBBT49 | 881570 | 1024 | 70 - 1095 | 2429 | Glu-96 to Lys-106. | AR096: 1, AR052: 1,
AR033: 0, AR061: 0,
AR089: 0, AR055: 0,
AR053: 0, AR039: 0,
AR060: 0, AR104: 0
L0439: 6, S0002: 5, S0360: 3, H0580: 3, H0575: 3,
S0346: 3, L0483: 3, L0804: 3, L0748: 3, H0597: 2,
S0144: 2, L0662: 2, L0517: 2, L0665: 2, L0438: 2,
L0754: 2, L0779: 2, S0242: 2, S0420: 1, S0356: 1,
H0574: 1, H0042: 1, H0570: 1, H0510: 1, H0375: 1,
S6028: 1, H0622: 1, L0194: 1, H0634: 1, H0413: 1,
S0464: 1, S0344: 1, L0638: 1, L0761: 1, L0643: 1,
L0493: 1, L0659: 1, L0783: 1, L0530: 1, L0666: 1,
S0374: 1, H0593: 1, S0126: 1, H0435: 1, H0521: 1,
H0478: 1, L0749: 1, L0777: 1, L0731: 1, H0445: 1, | L0775: 1, L0806: 1, L0653: 1, L0790: 1, L0666: 1, H0547: 1, S0126: 1, H0689: 1, H0539: 1, S3012: 1 and L0740: 1. | 2-23, 52-68, 128-144 |

| 1015 | HDPBT62 | 881683 | 1025 | 90 - 473 | 2430 | Asn-31 to Thr-37, Arg-83 to Asn-88. | S0434: 1, S0194: 1 and H0543: 1. AR039: 45, AR104: 30, AR052: 29, AR089: 23, AR060: 16, AR053: 40, AR096: 29, AR033: 27, AR055: 20, AR061: 14 H0521: 3, H0457: 2, H0497: 1, H0014: 1, H0179: 1, L0766: 1, H0698: 1, H0542: 1 and H0506: 1. | 43-59, 90-106 |
| 1016 | HDTIT02 | 881693 | 1026 | 111 - 572 | 2431 | Thr-29 to Arg-36, Cys-41 to Arg-57, Lys-62 to Gln-67, Gly-75 to Ile-83, Lys-123 to Thr-131, Leu-137 to Glu-145. | AR089: 11, AR033: 9, AR052: 7, AR060: 7, AR053: 6, AR055: 5, AR061: 4, AR096: 2, AR104: 2, AR039: 0 L0747: 16, L0748: 15, L0731: 10, L0752: 8, L0775: 7, L0750: 7, S0328: 6, L0757: 6, S0358: 5, S3014: 5, S0354: 3, H0038: 3, H0040: 3, L0774: 3, S0378: 3, H0696: 3, S0360: 2, H0393: 2, H0587: 2, H0069: 2, H0110: 2, H0413: 2, T0042: 2, S0422: 2, L0763: 2, L0770: 2, L0772: 2, L0764: 2, L0768: 2, L0806: 2, L0666: 2, H0659: | 99-122 |

2, S0027: 2, L0740: 2,
L0751: 2, L0759: 2, H0543:
2, H0624: 1, L0448: 1,
H0185: 1, H0657: 1, S0116:
1, H0663: 1, H0638: 1,
H0125: 1, S0418: 1, S0356:
1, S0408: 1, H0580: 1,
S0045: 1, S0046: 1, S0132:
1, H0351: 1, H0549: 1,
S0222: 1, H0391: 1, H0409:
1, H0586: 1, H0331: 1,
H0574: 1, H0486: 1, H0156:
1, T0071: 1, H0196: 1,
H0597: 1, H0530: 1, H0041:
1, S0051: 1, H0687: 1,
S0003: 1, H0328: 1, L0055:
1, H0674: 1, S0036: 1,
H0616: 1, H0412: 1, S0438:
1, H0509: 1, H0641: 1,
H0647: 1, S0344: 1, L0520:
1, L0769: 1, L0646: 1,
L0773: 1, L0766: 1, L0776:
1, L0783: 1, L0809: 1,
L0665: 1, H0144: 1, S0374:
1, S0126: 1, H0689: 1,
H0682: 1, H0658: 1, H0670:
1, H0710: 1, H0521: 1,
H0134: 1, S3012: 1, L0756:
1, L0780: 1, L0753: 1,
L0755: 1, S0194: 1, S0276:

| 1017 | HWHHS59 | 881714 | 1027 | 46 - 612 | 2432 | Pro-19 to Ala-24. | 1, S0196: 1, H0542: 1, H0422: 1 and S0384: 1. AR096: 8, AR053: 8, AR052: 7, AR089: 6, AR033: 6, AR055: 4, AR060: 4, AR104: 3, AR039: 2, AR061: 2 H0052: 3, L0751: 3, H0624: 2, S0418: 2, L0562: 2, H0179: 2, L0761: 2, L0771: 2, L0766: 2, L0659: 2, L0750: 2, L0777: 2, L0590: 2, S0376: 1, H0261: 1, H0592: 1, H0586: 1, H0587: 1, H0581: 1, H0546: 1, H0571: 1, H0083: 1, H0266: 1, H0181: 1, H0617: 1, H0124: 1, H0634: 1, H0551: 1, H0488: 1, L0351: 1, L0769: 1, L0637: 1, L0662: 1, L0378: 1, L0805: 1, L0655: 1, L0788: 1, L0666: 1, L0664: 1, L0665: 1, H0547: 1, H0519: 1, H0659: 1, H0521: 1, L0439: 1, L0747: 1, L0779: 1, L0758: 1 and H0543: 1. | | | 156-175, 67-83, 7-23, 45-61 |
| 1018 | HJPCP29 | 881766 | 1028 | 24 - 737 | 2433 | Gln-81 to Gly-88. | AR055: 9, AR053: 5, AR052: 5, AR096: 5, | | | 27-56, 164-181, |

1019	HHEBM09	881890	1029	132 – 461	2434	Leu-22 to Ser-27.			
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							AR096: 5, AR104: 4, AR039: 4, AR052: 4, AR053: 3, AR055: 2, AR089: 2, AR033: 2,		85-104, 65-83

1020	HDPIV17	881907	1030	41 - 739	2435	Ser-62 to Ala-69, Gly-77 to Gly-98.	AR061: 1, AR060: 1, L0748: 3, S0250: 1, L0751: 1 and H0542: 1.	AR060: 1, AR055: 1, AR089: 1, AR061: 1, AR033: 0, AR096: 0, AR039: 0, AR052: 0, AR053: 0, AR104: 0 L0766: 3, H0635: 1, H0318: 1, H0581: 1, H0457: 1, H0179: 1, H0560: 1, H0561: 1, L0764: 1, L0794: 1, L0803: 1, L0775: 1, L0806: 1, L0790: 1, L0791: 1, L0792: 1, L0665: 1, H0521: 1, L0779: 1 and L0758: 1.	180-196, 118-134, 8-24, 44-60
1021	HBGNO49	881968	1031	86 - 496	2436	Pro-16 to Gly-24, Glu-41 to Phe-49, Glu-81 to Gln-95, Arg-104 to Ser-114.	AR052: 18, AR055: 16, AR033: 14, AR053: 12, AR104: 11, AR089: 9, AR096: 8, AR061: 8, AR060: 8, AR039: 0 H0617: 3 and H0428: 1.	50-72
1022	HWAFQ40	882003	1032	149 - 562	2437	Met-1 to Ser-12, Pro-28 to Cys-39.	AR055: 1, AR060: 1, AR039: 0, AR052: 0, AR061: 0, AR089: 0, AR096: 0, AR053: 0, AR033: 0, AR104: 0 L0766: 34, S0360: 7,	82-105

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1023	HTLGZ03	882014	1033	1117 - 1545	2438	Ser-10 to Pro-17.	114-142
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1024	HLYCX18	882016	1034	208 - 549	2439	Trp-38 to Phe-43, Phe-103 to Trp-109.	1, H0441: 1, H0497: 1, H0486: 1, H0590: 1, H0618: 1, H0318: 1, H0050: 1, H0617: 1, H0634: 1, T0041: 1, H0529: 1, L0803: 1, L0663: 1, H0697: 1, H0593: 1, H0658: 1, H0436: 1, L0742: 1, L0743: 1, L0750: 1, L0758: 1, L0593: 1, L0603: 1, H0136: 1, H0543: 1 and H0422: 1. AR060: 243, AR033: 180, AR061: 154, AR039: 144, AR104: 119, AR055: 109, AR089: 102, AR053: 56, AR052: 54, AR096: 51 L0777: 1 and H0445: 1.		65-91
1025	HSDEK82	882064	1035	129 - 503	2440	Pro-5 to Gln-17.	AR104: 20, AR033: 14, AR060: 7, AR055: 7, AR039: 6, AR096: 5, AR061: 5, AR089: 4, AR053: 3, AR052: 3 S0051: 5, L0666: 4, S0388: 3, L0438: 3, S0036: 2, L0774: 2, L0805: 2, H0593: 2, H0670: 2, L0748: 2, L0752: 2, S0434: 2, S6024: 1, H0294: 1, S0030: 1, S0442: 1, S0360: 1, H0406:		61-91, 34-58, 99-119

1026	HCEMU86	882164	1036	347 - 787	2441	Pro-83 to Thr-88.		
							1, S0010: 1, L0040: 1, H0012: 1, H0620: 1, H0014: 1, S0048: 1, T0010: 1, H0673: 1, H0038: 1, H0494: 1, L0770: 1, L0769: 1, L0662: 1, L0806: 1, L0783: 1, L0663: 1, L0664: 1, S0330: 1, H0478: 1, L0741: 1, L0779: 1 and S0031: 1.	AR104: 6, AR033: 6, AR055: 4, AR039: 3, AR096: 3, AR060: 3, AR089: 3, AR061: 2, AR053: 2, AR052: 2 L0439: 21, L0438: 12, L0769: 9, T0010: 6, H0052: 5, L0776: 4, L0805: 3, S0126: 3, L0741: 3, L0589: 3, H0261: 2, T0006: 2, L0455: 2, L0659: 2, H0519: 2, L0742: 2, L0748: 2, L0751: 2, L0592: 2, S0276: 2, H0583: 1, L0418: 1, S0298: 1, S0001: 1, S0400: 1, L0394: 1, S0222: 1, H0455: 1, H0331: 1, H0156: 1, T0082: 1, N0006: 1, H0570: 1, S6028: 1, H0644: 1, S0036: 1, H0100: 1, L0351: 1, S0352: 1, L0598:	95-118, 51-73, 117-137, 6-23, 31-48

| 1027 | HKAEF60 | 882197 | 1037 | 137 - 496 | 2442 | Met-2 to Asn-7, Arg-21 to Tyr-29, Gln-33 to Ile-41, Ala-103 to Asp-120. | AR096: 9, AR089: 8, AR104: 8, AR053: 7, AR052: 7, AR060: 5, AR039: 5, AR033: 4, AR055: 4, AR061: 2 H0585: 19, L0747: 15, L0748: 13, L0731: 11, L0777: 10, L0438: 9, H0141: 8, L0755: 8, H0046: 7, L0766: 7, S0003: 6, L0803: 6, L0805: 6, L0439: 6, L0779: 6, L0758: 6, S0360: 5, L0770: 5, L0774: 5, S0126: 5, L0740: 5, L0588: 5, H0545: 4, H0040: 4, H0144: 4, L0749: 4, L0596: 4, L0485: 4, H0556: 3, H0657: 3, S0358: 3, S0476: 3, H0599: 3, S0010: 3, H0024: 3, H0014: 3, H0622: 3, H0494: 3, S0426: 3, L0776: 3, L0809: 3, S0152: 3, L0752: 3, H0265: 2, S0408: 2, H0574: 2, H0632: 2, S0280: | 1, L0369: 1, L0638: 1, L0793: 1, H0520: 1, L0777: 1, L0752: 1, L0753: 1, L0758: 1, L0593: 1 and L0366: 1. | 40-73, 73-99 |

2, H0156: 2, H0581: 2,
H0123: 2, H0051: 2, H0510:
2, H0634: 2, H0616: 2,
S0440: 2, L0598: 2, L0369:
2, L0646: 2, L0775: 2,
L0651: 2, L0653: 2, L0807:
2, L0665: 2, H0547: 2,
H0519: 2, H0659: 2, S0378:
2, S0380: 2, H0704: 2,
S0044: 2, S0027: 2, L0754:
2, L0745: 2, L0599: 2,
L0362: 2, L0601: 2, H0653:
2, H0423: 2, T0002: 1,
H0716: 1, S6024: 1, T0049:
1, S0218: 1, H0656: 1,
H0341: 1, H0664: 1, H0638:
1, S0420: 1, S0356: 1,
S0444: 1, H0208: 1, S0045:
1, S0132: 1, H0645: 1,
L0717: 1, H0351: 1, S0278:
1, H0369: 1, S0222: 1,
H0370: 1, H0357: 1, H0587:
1, H0331: 1, H0486: 1,
H0635: 1, H0002: 1, H0042:
1, H0122: 1, H0706: 1,
S0346: 1, S0474: 1, H0052:
1, H0263: 1, T0115: 1,
H0327: 1, H0530: 1, H0198:
1, H0023: 1, H0015: 1,
H0239: 1, H0594: 1, S6028:

1, H0266: 1, S0022: 1, H0252: 1, H0328: 1, H0615: 1, H0428: 1, T0006: 1, H0032: 1, H0068: 1, H0316: 1, H0135: 1, H0163: 1, H0090: 1, H0591: 1, H0038: 1, H0551: 1, H0412: 1, H0413: 1, H0100: 1, T0042: 1, H0625: 1, L0065: 1, S0150: 1, H0633: 1, H0646: 1, H0649: 1, H0652: 1, S0142: 1, S0002: 1, L0769: 1, L0761: 1, L0667: 1, L0772: 1, L0373: 1, L0643: 1, L0764: 1, L0771: 1, L0662: 1, L0794: 1, L0784: 1, L0806: 1, L0526: 1, L0547: 1, L0647: 1, L0791: 1, L0666: 1, L0663: 1, H0701: 1, H0691: 1, H0593: 1, H0682: 1, H0658: 1, L0355: 1, S0328: 1, H0539: 1, H0710: 1, H0518: 1, H0521: 1, H0522: 1, H0478: 1, S0206: 1, L0751: 1, L0746: 1, L0750: 1, L0780: 1, L0757: 1, L0759: 1, L0592: 1, L0594: 1, H0668: 1, S0026: 1, S0196: 1, H0543: 1, H0422: 1 and

| 1028 | HEORN16 | 882261 | 1038 | 431 - 1084 | 2443 | Met-99 to Ala-114, Pro-138 to Arg-143, Thr-169 to Arg-176, Ser-207 to Pro-218. | S0460: 1. AR033: 4, AR089: 3, AR053: 2, AR060: 2, AR061: 2, AR055: 2, AR096: 1, AR052: 1, AR039: 0, AR104: 0 L0747: 5, L0749: 4, H0657: 3, H0553: 3, L0758: 3, S0040: 2, H0341: 2, L0789: 2, L0748: 2, L0779: 2, L0753: 2, H0542: 2, H0265: 1, H0669: 1, S0418: 1, H0370: 1, H0586: 1, H0497: 1, H0427: 1, H0036: 1, H0253: 1, H0457: 1, H0086: 1, H0081: 1, H0355: 1, S0338: 1, S0340: 1, H0039: 1, H0181: 1, S0366: 1, H0598: 1, H0135: 1, H0063: 1, H0412: 1, H0413: 1, H0652: 1, S0422: 1, S0002: 1, H0529: 1, L0369: 1, L0770: 1, L0772: 1, L0642: 1, L0771: 1, L0521: 1, L0381: 1, H0658: 1, H0666: 1, H0539: 1, H0521: 1, H0522: 1, S0044: 1, H0187: 1, H0436: 1, L0741: 1, L0746: 1, L0777: 1, L0780: 1, H0343: 1, H0595: | | | 40-61, 1-22, 61-77 |

1029	HKGBJ74	882285	1039	183 - 530	2444		1, H0707: 1, S0434: 1 and S0424: 1. AR052: 4, AR096: 4, AR053: 4, AR104: 3, AR039: 3, AR089: 2, AR055: 2, AR033: 2, AR060: 1, AR061: 1 H0549: 1 and H0538: 1.	42-58, 98-114
1030	HOSPA48	882296	1040	119 - 1126	2445	Ala-6 to Gly-11, Ser-20 to Ser-30, Ser-60 to Ser-65, Ser-157 to Glu-170, Lys-179 to Asp-184, Ser-285 to Val-290, Pro-306 to Ser-314.	AR053: 1, AR104: 1, AR052: 1, AR089: 1, AR061: 0, AR033: 0, AR096: 0, AR060: 0, AR039: 0, AR055: 0 S0003: 6, L0777: 4, L0752: 4, H0617: 3, H0553: 2, H0124: 2, L0804: 2, L0757: 2, H0662: 1, S0045: 1, H0266: 1, S0214: 1, H0598: 1, L0666: 1, S0126: 1, H0651: 1, L0588: 1 and H0422: 1.	317-336, 131-147, 30-46, 201-217
1031	HWHQN1 6	882307	1041	124 - 1023	2446	Met-1 to Tyr-17.	AR055: 3, AR060: 3, AR033: 3, AR061: 2, AR104: 2, AR053: 1, AR039: 1, AR089: 1, AR096: 1, AR052: 1 L0748: 12, H0521: 11, L0755: 9, S0474: 8, L0662: 7, S0436: 7, L0596: 6,	213-245, 184-211, 100-130, 133-156, 247-267, 162-181

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S0342: 1, H0713: 1, H0716:
1, H0295: 1, S0218: 1,
S0116: 1, S0212: 1, H0484:
1, H0664: 1, H0662: 1,
S0418: 1, S0442: 1, S0354:
1, H0729: 1, H0722: 1,
H0733: 1, L0717: 1, H0431:
1, H0600: 1, H0587: 1,
H0333: 1, H0331: 1, H0559:
1, H0486: 1, H0013: 1,
H0250: 1, H0427: 1, S0280:
1, L0021: 1, H0599: 1,
H0036: 1, L0563: 1, H0581:
1, H0173: 1, H0545: 1,
H0457: 1, L0041: 1, H0150:
1, H0123: 1, H0081: 1,
H0050: 1, H0197: 1, T0010:
1, H0375: 1, H0267: 1,
H0188: 1, S0250: 1, H0032:
1, H0040: 1, H0616: 1,
H0087: 1, H0413: 1, H0100:
1, S0112: 1, H0560: 1, S0144:
1, H0561: 1, H0131: 1, S0144:
1, S0142: 1, S0344: 1,
L0631: 1, L0770: 1, L0772:
1, L0771: 1, L0646: 1, L0643:
1, L0771: 1, L0773: 1, L0363:
1, L0766: 1, L0650: 1,
L0375: 1, L0376: 1, L0654:
1, L0655: 1, L0658: 1,

| 1032 | HRDEP41 | 882351 | 1042 | 33 - 500 | 2447 | Gly-48 to Tyr-53, His-95 to Trp-117, Ser-123 to Gln-128. | AR033: 12, AR104: 7, AR055: 5, AR060: 3, AR053: 3, AR052: 3, AR096: 3, AR089: 2, AR061: 2, AR039: 0 S0022: 6, L0770: 6, L0769: 6, L0758: 5, S0051: 4, H0521: 4, L0747: 4, L0756: 4, H0638: 3, H0124: 3, L0794: 3, L0805: 3, S0278: 2, S0222: 2, H0052: 2, H0327: 2, H0100: 2, L0789: 2, L0438: 2, L0439: 2, L0751: 2, L0777: 2, L0591: 2, S0282: 1, S0356: 1, L0717: 1, H0441: 1, H0587: 1, L0163: 1, H0051: 1, S0048: 1, H0594: 1, | L0382: 1, L0543: 1, L0664: 1, S0428: 1, H0690: 1, H0682: 1, H0670: 1, H0660: 1, H0648: 1, H0710: 1, H0518: 1, S0152: 1, H0522: 1, S0406: 1, H0478: 1, L0611: 1, S0390: 1, S0037: 1, S0206: 1, L0743: 1, L0758: 1, S0031: 1, S0260: 1, H0595: 1, L0588: 1, L0604: 1, H0423: 1 and H0422: 1. | 63-89, 2-18 |

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1033	HFVIK60	882352	1043	589 - 999	2448	H0328: 1, L0455: 1, S0036: 1, S0038: 1, S0344: 1, L0761: 1, L0775: 1, L0375: 1, L0776: 1, L0659: 1, L0809: 1, L0647: 1, L0750: 1, L0753: 1 and H0445: 1.	AR055: 10, AR039: 7, AR060: 5, AR061: 5, AR052: 5, AR033: 4, AR096: 4, AR053: 4, AR089: 3, AR104: 1 L0771: 4, L0766: 3, L0803: 3, L0789: 3, S0114: 1, H0341: 1, H0662: 1, S0354: 1, S0360: 1, S0046: 1, H0619: 1, H0393: 1, H0036: 1, H0590: 1, H0014: 1, L0761: 1, L0772: 1, L0764: 1, L0804: 1, L0774: 1, S3014: 1, L0748: 1 and L0779: 1.	7q22	126650, 126650, 154276, 173360, 173360, 602136, 602136, 602136, 602447	73-102, 2-25
1034	HTJAC60	882355	1044	78 - 1106	2449	Met-1 to Pro-6, Arg-14 to Thr-29, Thr-41 to Thr-48, Ser-50 to Leu-58, Glu-82 to Arg-90, Asn-185 to Lys-190, Gln-217 to Gln-222, Gln-237 to Gly-243,	AR053: 60, AR052: 54, AR096: 52, AR039: 28, AR089: 18, AR055: 16, AR033: 15, AR104: 11, AR060: 11, AR061: 10 H0253: 5, L0758: 3, S0444: 2, H0333: 2, H0510: 2, L0783: 2, S0406: 2,			134-156, 305-323, 271-287, 105-121, 166-182

| 1035 | HMAIH15 | 882500 | 1045 | 105 - 734 | 2450 | Lys-332 to Asp-343. | L0744: 2, L0754: 2, L0747: 2, L0749: 2, S0436: 2, H0422: 2, H0265: 1, H0717: 1, H0716: 1, S6024: 1, H0341: 1, H0484: 1, H0192: 1, S0360: 1, S0408: 1, T0008: 1, H0580: 1, H0393: 1, S0280: 1, H0196: 1, H0544: 1, H0545: 1, H0086: 1, H0009: 1, H0123: 1, H0620: 1, H0024: 1, S0362: 1, S0051: 1, H0188: 1, H0284: 1, H0428: 1, H0606: 1, H0135: 1, H0063: 1, H0487: 1, S0440: 1, L0768: 1, L0806: 1, L0653: 1, L0791: 1, L0666: 1, L0438: 1, H0672: 1, H0539: 1, S3014: 1, L0743: 1, L0752: 1, H0444: 1, H0423: 1 and H0677: 1. | 186-210, 1-24, 76-102, 137-154, 38-56, 58-77, 156-172 |
| 1036 | HTTDZ74 | 882514 | 1046 | 70 - 618 | 2451 | Gln-32 to Leu-40, Asn-177 to Trp-182. | AR096: 2, AR039: 2, AR033: 2, AR060: 2, AR053: 1, AR089: 1, AR061: 0, AR055: 0, AR052: 0, AR104: 0 S0278: 1 AR033: 248, AR061: 210, AR060: 198, AR089: 122, | 16-47, 61-84, 91- |